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HYDROGRAPHIC SERVICES REVIEW PANEL

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Acting Chair: Ed Welch

Vice Chair: Ed Welch

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8:33 a.m. - 4:46 p.m.

1 ADMIRAL WEST: To survive, yes. I mean,
2 they have to break even or -- or they go out of
3 business.

4 ED WELCH: Which would be a fundamental
5 change in terms of federal government policy
6 for this type of thing.

7 Okay. Anybody else?

8 Mr. Manns -- he sent two letters, and one
9 of them was talking about this dilemma with the
10 NGA charts, and the other he had some comments
11 about some -- some concerns about I guess the
12 current NOAA pricing review.

13 Have you seen that letter and is there
14 anything you can tell us about that?

15 HOWARD DANLEY: About the pricing, I don't
16 remember exactly what Mr. Manns said in that
17 one, but --

18 ED WELCH: Okay. Well, then, it's not
19 fair of us to ask you that question at this
20 point.

21 We'll discuss skit it a little bit later
22 at the public comment period.

23 Any other comments or questions? Yes,
24 Elaine.

1 ELAINE DICKINSON: On the NGA aspect, is
2 it within the realm of possibility that they
3 would be converted to print-on-demand products
4 so people could get them, bypass this whole
5 other issue?

6 HOWARD DANLEY: That would be -- that is a
7 possibility, yes. If the hurdles that they
8 have -- I think there may be some copyright
9 issues because of the information on -- NGA
10 charts is derived from countries who have
11 copyright, but it's certainly -- it certainly
12 could be navigable.

13 ED WELCH: Okay.

14 Well, you've helped us generate quite a
15 discussion. Thank you very much.

16 HOWARD DANLEY: Thank you for your time.

17 ED WELCH: Okay.

18 We're -- we've got a break scheduled for a
19 few minutes. What time is it now? Let's --
20 let's break -- we're scheduled to resume at
21 10:45. Let's go to maybe ten minutes after
22 11:00. Come back here at five of 11:00.

23 (Recess.)

24 ED WELCH: Thanks, folks, and I'm going to

1 recognize Admiral West for an introduction of
2 our next presenter.

3 ADMIRAL WEST: Thanks.

4 Back at the height of the Cold War,
5 Narragansett Bay was full of Navy ships, I mean
6 lots and lots of ships, and Newport, over at
7 Quonset Point, and of course submarines that
8 would come in for all the torpedo work, so
9 there were lots and lots of ships there.

10 There's no more ships out there anymore,
11 other than ones that stop to visit, but what
12 Newport has become, the Navy base, is a
13 concentration of Naval Officer Training with,
14 of course, the Naval War College is there and
15 Chapman School is there, Officer Candidate
16 School is there and legal schools there and on
17 and on and on.

18 But the premier school there is a Service
19 Warfare Officers School at Newport. SWOS --
20 and Neil will explain to you how they do this.

21 SWOS is where we training all the officers
22 that go drive ships in the Navy, and they
23 come -- before they go to their first ship,
24 they come back after theirs first tour, after

1 their second tour, after the their XO tour, and
2 after the CO tour.

3 So it's a sequential training command, and
4 I'll let Neil talk to you a little more about
5 at that.

6 But the training for officers on our ships
7 is concentrated in Newport. The training for
8 officers for submarines is here in Groton.
9 Aviators are trained down -- concentration is
10 in Pensacola and special forces out at San
11 Diego with lots of ancillary training places.

12 But the concentration and training the
13 officers go to sea on our ships are right here
14 in Newport.

15 I'll let Neil tell you a little bit about
16 himself. I will tell you, once you've driven
17 ships all your life and that's what you like to
18 do and you've had your major command, which is
19 basically your last one, and you get relieved
20 and you go, oh, damn, this is the end of it.
21 There's nothing else to do.

22 It's really depressing, and it was for me,
23 but there is one job for a surface warfare
24 officer as a captain out on a ship that's

1 really, really good, and that's the CO of SWOS.

2 So welcome Neil Parrott, the CO of SWOS.

3 CAPTIAN NEIL PARROTT: Thank you very
4 much.

5 I'm going to change up the plan here. I
6 have this 11-slide brief that goes quickly, but
7 I thought this morning I kind of was in the
8 mindset of coming up here, Admiral West
9 contacted me it seems like several months ago
10 but a long -- I had long lead time, and then
11 this morning I found this really neat video
12 that I used for the Navy League a couple of
13 weeks back for their quarterly meeting down in
14 Newport, so I'm going to try it off on you and
15 see what you think.

16 Because really, if you think of surface
17 war fair officers, as you see, we're users of
18 what you're talking about, okay? We're the
19 users of those nautical charts, we're the users
20 of electronic navigation.

21 But I'm going to show you what we do with
22 this, and I am going to even try to add some
23 sound with it, so here goes nothing.

24 TOM JACOBSEN: Do you have sound on that?

1 CAPTIAN NEIL PARROTT: Don't worry about
2 the sound so much as the pictures. Watch the
3 video.

4 This is all about exercising our maritime
5 strategy.

6 That's my old ship right there.

7 ADMIRAL WEST: Looks like mine right
8 there.

9 CAPTIAN NEIL PARROTT: Okay.

10 So the common core of all that we just saw
11 is, of course, we have to have safe navigation
12 to do all that stuff. Does everybody buy that?

13 And that is part of my job up there at the
14 Surface Warfare -- down there at the Surface
15 Warfare Officer School at Newport, Rhode
16 Island. And I'll show you right here, our
17 mission statement very simply, and I'm really
18 paraphrasing on it, some bureaucrat --

19 Do I need to use the microphone? Am loud
20 enough?

21 ED WELCH: Jill is the arbiter.

22 CAPTIAN NEIL PARROTT: Okay.

23 So if you see our mission statement, just
24 concentrate on the bottom statement: We

1 prepare officers to serve in their next job at
2 sea.

3 That's our whole job down there, and we
4 take the young -- the newest ensigns that are
5 fresh out of college and the Naval Academy, and
6 we train them how to -- you know, right full
7 rudder from left rudder.

8 And then we also teach them how to
9 navigate, and we teach them a little bit about
10 maintenance on their ships, and we teach them
11 about, you know, how to properly salute the
12 ensign when they come on the ship and all that.

13 How long would you guess we have to do
14 that for those brand-new ensigns?

15 MATT WELLSLAGER: Six weeks.

16 CAPTIAN NEIL PARROTT: That's a good
17 guess, but it's wrong.

18 JONATHAN DASLER: Four weeks.

19 CAPTIAN NEIL PARROTT: Three weeks. Three
20 weeks is what we get.

21 But it's a continuum of professional
22 education, so we give them three weeks from
23 whatever their source program is, NROTC, 72
24 universities throughout the nation. Officer

1 Candidate School down there in Newport, Rhode
2 Island, co-located with us, or the Naval
3 Academy out of Annapolis.

4 And in that, we assess about 800 officers
5 per year, and we bring them to the school, give
6 them three weeks and send them out to their
7 first ship in the Navy, okay?

8 And on that first ship, then they have
9 about 15 to 18 months to demonstrate certain
10 skill sets before they earn their way back to
11 Newport, and then we work on their advanced
12 ship-handling.

13 And in all that time, one of the biggest
14 things that I think we can -- one of the most
15 important things that we can teach those
16 officers -- because they're largely deck
17 officers to begin with for their first two
18 tours, they're deck officers, is to safely
19 navigate ships.

20 Okay. Now, one of the things the Surface
21 Navy is doing that they should have done quite
22 some time ago is fully converting over to
23 electronic navigation.

24 Now, I'll be honest with you, how many of

1 you have some sort of GPS device in a car that
2 you drive? Does anybody do that?

3 So they're pretty neat devices. They're
4 great. And I'll tell you what, I was telling
5 Ed here that even though I'm just very close
6 there in Newport, I rarely get off the island
7 unless I'm going to and from the airport, and
8 to get her today, I had to have GPS.

9 Okay. So when -- when this tells me get
10 off on Exhibit 23, turn right and then bear
11 right, I also look up to make sure there's a
12 road there on the right with which to turn
13 right and bear right on, correct? Okay.

14 So one of the things when I came off my
15 ship last winter, I reported in to the Naval
16 Force -- Service force Headquarters out in San
17 Diego waiting for a new job, and one of our
18 cruisers had run aground off of Hawaii the
19 night before, and so guess who got to do the
20 investigation?

21 What I found, sadly, on that, they didn't
22 lose an engine, they didn't lose -- something
23 didn't go wrong with their running gear or
24 anything like that. They simply drove that

1 ship aground watching their electronic
2 navigation and not looking up out the window.

3 And you shake your head. We have now had
4 great -- over here in the Service Warfare
5 Officer School, we've invited in the Merchant
6 Marine, the Coast Guard, of course the Naval
7 Academy, anybody that -- any maritime
8 profession that we could think of, invited them
9 in, and they all have the same problem.

10 These gadgets are great, but we've got to
11 understand how to do basic navigation in order
12 to properly use and -- and check what those
13 gadgets are doing for us. Does everybody
14 follow me on this?

15 So that's my task in life, to make sure we
16 can do that accurately without running our
17 ships aground.

18 Admiral West mentioned there's no ships in
19 Newport. What is the best classroom for
20 somebody learning the maritime profession?

21 Ma'am, what do you suppose, best
22 classroom? I know, four hours per night,
23 that's right. Best classroom? Can anybody
24 help me out?

1 The ship. Of course it is. The best
2 way -- this goes back hundreds of years. How
3 did people learn their profession at sea? We
4 took the midshipmen's to sea for years on end
5 before we decided we were going to offer them a
6 regular commission in the Navy.

7 And I still subscribe to that. I think
8 there's value in having a continuum between the
9 brick-and-mortar schoolhouse, that's the
10 Surface Warfare Officers School, and the ship.

11 So again, it's my burden to -- it's my
12 task to make sure that I have that continuity
13 with all of our 272 ships that are running
14 around out there, and did I have a proper
15 handoff between the ships and the schoolhouse
16 along the way.

17 So of course we use quizzes, homework,
18 reading assignments. It's a graduate level
19 education for these officers just coming out of
20 college.

21 And I tell them, number one, you're going
22 to do more reading than you've ever done
23 before.

24 Most of them, by the way, haven't been to

1 graduate school. Couple might have, but
2 they're used to being spoonfed in colleges,
3 okay? I know colleges aren't supposed to do
4 that, but they do.

5 So what we have to do is get them in the
6 habit of reading things like Bowditch and all
7 those things, all the tried and true references
8 that we still use to this day, and then we
9 teach them how to use those things.

10 In addition to that, we work on the
11 individual skill sets, but we have to work also
12 on team training.

13 So the -- the United States -- my last
14 ship was a 40,000-ton helicopter carrier, and
15 on that bridge on any given day, we usually had
16 about eight people, okay?

17 Our -- our Littoral Combat Ship, our
18 newest class of ship in the Navy, has all of
19 two people on that bridge. One drives and one
20 looks out and navigates, talks on the radio,
21 anything else that needs to be done on the
22 bridge, and that's more of the direction we're
23 going, so it's even more -- it -- it's more
24 imperative for us to teach sound navigation

1 skills.

2 Now, I'm going to tell you, I come to you
3 representing the user end of navigation. I
4 heard a little bit of the tail end of that
5 discussion there, and I'm telling you, if you
6 give me a chart or -- more likely than not, the
7 chart is loaded up electronically, so I have
8 the electronic, I take it on face value that
9 that chart is correct. Okay?

10 I'm still -- I still come from the Navy
11 where we did our own corrections on the chart,
12 pencil corrections and checked those
13 corrections back and forth, but I'm going to
14 tell you, those days are gone.

15 But the good news is, it's very easy to
16 correct charts as long as you have the
17 corrections, the surveys have been done and so
18 on and so forth.

19 Oftentimes we're asked to go into the far
20 corners of the world where nobody has surveyed
21 the ports for years and years or we're using
22 pre-World-War-II charts and understand that
23 there's certainly an inherent risk if we're
24 asked to go into a port with that kind of time

1 lateness on our survey data.

2 Again, that's something I have to teach
3 our navigators now or the people that teach
4 take ships to sea. Those gadgets are great,
5 but remember, it's garbage in, garbage out.

6 If you digitize an old chart and put it
7 into the system electronically, it's still an
8 old chart, right?

9 So we teach the sound navigation, even if
10 you had to go into one of those ports and
11 you're not sure about the depth, if you have to
12 go in on a lead line, you have to go in on a
13 lead line. Send your boat in ahead of you or
14 something like that or don't go in. Anchor out
15 and just move your crew using your ship's
16 boats.

17 But anyway, it's a continuum of learning
18 that uses these tools to teach. Okay? So
19 there's really nothing between the classroom
20 and the ship. These officers are bouncing back
21 and forth, but what's new, because we don't
22 have ships, it was -- we use lot of technology
23 trainers out there now.

24 I have -- has anybody been down -- besides

1 Admiral West, has anybody been down to the
2 Surface Warfare Officers school ever? Okay. I
3 challenge you to come on down to the Naval
4 Station in Newport, and I will bring you into
5 our ship-handling trainer, which is a regular
6 GMATS-run trainer, but we own it.

7 And we contracted the GMATS individual to
8 teach, of course, my lieutenants. My
9 lieutenant commanders go in there and teach as
10 well.

11 But I'll bring you in here, and I can --
12 you tell me what sea state you want, what
13 weather you want, what class of ship you want,
14 whether it's a Coast Guard cutter or Navy
15 destroyer, or an aircraft carrier, we can model
16 it, and I can even make you seasick in there.

17 And it doesn't move, by the way. It does
18 not move. That's how good the graphics are
19 these days.

20 Now, these 23-year-old officers get it,
21 because they grew up with this kind of
22 technology. They really, really understand
23 that.

24 But what I also have to make them

1 understand is when they crash that ship into
2 the pier when they're trying to come alongside
3 and tie up, that's okay in the trainer, but
4 that's a billion dollar warship when they're
5 out there with 300 sailors that you can't put a
6 price on the value of their service and
7 certainly those lives.

8 So we really take this seriously on our
9 ship-handling training, and I challenge each of
10 them don't bump into the pier, don't bump into
11 the oiler when you're going alongside, don't
12 bump into the merchant ship when you're trying
13 to get out of Narragansett Bay here.

14 That's what we don't want them to do
15 being, okay? And that's kind of what we teach.

16 We also teach tactical training, just so
17 you know, and I'll be dealing in the
18 ship-handling and navigation here this morning.
19 But the tactical training, I can deal with any
20 type of scenario that we can come up with.

21 So counterpiracy is big these days. And
22 if you can imagine, those are things that
23 unfortunately, you know, we've been doing
24 counterpiracy since long before our Navy

1 actually existed.

2 And in the early days of our country, one
3 of our first missions was counterpiracy in the
4 Mediterranean, okay? And I've got to tell you,
5 there's still no written tactic, technique or
6 procedure or doctrine that we've published that
7 tells us how to do it well, okay, because
8 that's something -- it just depends who the
9 pirates are, okay?

10 So I really won't deal with that too much
11 here this morning, because that's off the topic
12 of using your charts and safe navigation; but
13 more than anything, remember, we do that up
14 there as well. We have to teach people how to
15 fight the ship, and that's that portion of the
16 chart.

17 And then over here, we also do the same
18 thing on the engineering side. So much like
19 the merchant model now, the engineer may or may
20 not be in the plan. And on the new Littoral
21 combat ship, the person that's monitoring the
22 engineering plant is doing guess what else?
23 They're navigating the ship. Okay?

24 And I got to tell you, you know, just kind

1 of being old-school, and also was a chief
2 engineer three times over, I'm telling you, I
3 didn't like it when I first heard about it, but
4 it actually works, okay? Because the guy on
5 the bridge can focus on navigation, once he
6 gets his prompts on the -- you know, something
7 that might be going down in the plant, you have
8 people on that ship that can respond to it. He
9 is really just conveying the message to people
10 that need to take action on it.

11 But again, we have to train all those
12 watch standards. For instance, we're doing
13 counterpiracy. We're going through the Straits
14 of Hormuz coming in and out of the Arabian
15 Gulf, what happens almost every time these days
16 is we get small boats coming across that are
17 generally smugglers, but they are armed.

18 And so we have to worry about staying in
19 the navigation channel. It's pretty deep
20 water. You don't have to worry about running
21 aground, but there's lots of other ships out
22 there, too.

23 And so do you -- do you, you know, do you
24 want to avoid taking that gunfire or do you

1 want to stay safely in the channel? And we're
2 asking a 23-year-old to decide that, okay? So
3 that's what we have to train for.

4 And don't forget, I don't want to scare
5 you. You always have crusty guys like me on
6 the bridge, too, Admiral West on the bridge,
7 and they give the -- you know, the
8 overarching --

9 I always contend that when something like
10 that happens, that's probably where I'm either
11 going to be making a head call or I'm -- I've
12 got my nose in some piece of paperwork back aft
13 in my cabin, and I'm -- I'm 30 seconds away
14 from actually being on the bridge.

15 So we train them to make these snap
16 decisions, and they're -- they're actually
17 pretty good at it. I'm very, very impressed
18 with the officers that come through.

19 But let me just explain how we train
20 navigations here.

21 So I talked about the three weeks of
22 Surface Warfare Officer intro. So before they
23 go to their first ship, we give them three
24 weeks, and it's pushing out to four in June.

1 I got to the job in August, and I started
2 stamping my feet, having four ships over the
3 last 11 years, and I said no, no, no, no, we
4 got to get them more, got to get them more,
5 okay?

6 And I'm actually -- I'll tell you, we're
7 finally getting this extra week. I probably
8 won't get it done anytime real soon, but I'm
9 going to try and push out to two months.

10 I think the right full rudder and left
11 full rudder is easy. Navigation, we're get a
12 getting a handle on that.

13 By the way, that cruiser grounding I had
14 to investigate, I learned that from the seaman
15 apprentice who is actually putting a fix on the
16 chart up to the commanding officer of that
17 ship, they did all -- they all failed to follow
18 safe navigation procedures.

19 And those procedures, even though that
20 ship was still on paper charts, those
21 procedures are the same procedures that were
22 used in World War II. These are not new
23 procedures. They're tried and true procedures,
24 safe navigation procedures.

1 So again, that's one of those that I see
2 as my job, is to reinstill safe navigation,
3 because as the floor shifts and within two
4 years we'll be all electronic, no paper
5 navigation charts on those ships --

6 Submarines are already there, by the way,
7 they're already there, and they have the same
8 growing pains. We really have to have the
9 academic underpinnings of safe navigation
10 reinforced.

11 So three weeks, pushing out to four here
12 next month, and then they go to their ship for
13 15 to eight months. They work on what we call
14 personal qualification. So it's hundreds of
15 line items, navigating your ship using, you
16 know, electronic navigation -- you know, on and
17 on and on and on.

18 And they do these things, and their senior
19 officers sign off on not only them doing it but
20 their proficiency in doing that. And that
21 builds a professional portfolio for this
22 officer that then they earn their way back to
23 us for three more weeks before they get their
24 qualification here.

1 Their certification as a Surface Warfare
2 Officer, and that acronym is Advanced Ship
3 Handling and Tactics.

4 And we spend a lot of time with the
5 Advanced Ship Handling making sure they
6 understand navigation. And now with the
7 Littoral combat ship -- I've serviced on ships
8 that are generally going max speed about 30, 33
9 knots, something like that, and now we've got
10 ships topping out at about 48 knots.

11 So you don't have a lot of time if you
12 have errors in navigation to correct. So we
13 want to get it right the first time.

14 So we'll bring them up for Advanced Ship
15 Handling and Tactics for three more weeks. By
16 the way, I'm getting ready to graduate a class
17 of 65 tomorrow, and we watch real carefully on
18 the grades there, too.

19 I'd say no more than two per class do not
20 make it through the class. In the earlier
21 class, we're nearly 100 percent. Because
22 honestly, we want to try them on the ship
23 first, but then later on when it comes to
24 Surface Warfare Officer qualification, their

1 final checkmark, just like getting their wings
2 if they were a pilot, probably about a ten
3 percent drop rate out of that.

4 And what I look for is guys who just don't
5 understand relative motion or they don't
6 understand -- you know --

7 It's not hard to teach navigation, but
8 it's -- I found it's difficult to teach
9 diligence in navigation, okay, tenacity in
10 navigation. And that comes from my experience
11 on ships. Okay?

12 But we also keep out there division
13 officer study guides, this is the bowdage
14 [phonetic], all the references they have, and
15 encourage them to get into those references
16 frequently.

17 And those, by the way, are electronically
18 updated as those things change out in the
19 fleet.

20 So it's kind of like you expect, if you go
21 out and hire a lawyer, we want the lawyer to
22 have the most current state codes, right? You
23 expect professionals, the mariners, to have the
24 most current references, and that's what we do

1 while they're at sea. We make sure we keep
2 feeding them the most current updates on the
3 references.

4 So I just want to show you how we teach
5 seamanship and navigation. This is COVE,
6 Conning Officer Virtual Environment. These are
7 the virtual reality helmets. Generally a
8 lieutenant teaching an ensign or a civilian
9 mariner teaching an ensign or up through a
10 captain.

11 It just depends on the flavor of student
12 and the amount of proficiency the student comes
13 in with.

14 And not only do we teach the
15 ship-handling, but we teach the navigation. So
16 that's why you usually see two in here. One is
17 conning the ship and one is the navigator.

18 And we stress that, because that's our
19 least common denominators on my LCS.

20 If you have a ship that you're normally
21 manning the bridge with eight people on it,
22 that's somewhat overkill, but we have to train
23 all those eight people. I'll show you a
24 picture and where we do that in a full mission

1 bridge scenario.

2 But it's as simple as that, by the way.

3 Here again, Cove III, we're not getting away
4 from the helmets, but the helmets also cut out
5 anybody else that is participating in that, if
6 you have some -- some people sitting in the
7 cheap seats behind the conning officer, that
8 they're learning from that.

9 So we have large-screen displays, these
10 are 72-inch displays, that are also very
11 effective in the teaching environment, because
12 we can bring more people in critiquing somebody
13 that's conning the ship and navigating a ship
14 as we go, and that's why we've somewhat gone to
15 those large-screen displays.

16 And then finally in the full-mission
17 bridge -- and we can do any US port. We can do
18 most of the international ports that we go
19 into.

20 I think our goal right now is to -- to
21 load up on the full mission bridge -- well,
22 I'll say it this way: The same software that
23 runs full mission bridge runs that conning
24 officer virtual environment and all that -- the

1 large screen displays.

2 So the goal is to get all the ports that
3 we could possibly -- if you asked me to go into
4 Timbuktu, I can -- I can successfully model the
5 Port of Timbuktu having those charts loaded up
6 in our system, and that's what we really want
7 to do.

8 I've already told you I can model any type
9 of weather conditions, any environmental, I
10 can model any class of ship.

11 If you gave me a ship that we don't have
12 or one that we're bringing online, all we need
13 to do is build the physics-based model, and we
14 can put a sailor in there and teach him how to
15 drive it.

16 So the other part in full mission
17 bridge -- and this is important to
18 understand -- is we also have to teach them to
19 defend the ship.

20 So don't worry too much about the
21 acronyms, but FAC/FIAC is if you have people
22 coming out and firing at you, the small boats,
23 the ones that we worry about, okay.

24 And those are the things that not only are

1 you trying to safely navigate a ship, but
2 you're also defending it at the same time,
3 okay.

4 So if you look, all of our students come
5 through there and we put them through what we
6 call a one-two punch, kind of a graduation
7 exercise, and they've got to exercise good
8 sound practices of bridge resource management,
9 navigation and of course defending the ship.

10 The goal in defense of the ship is to make
11 sure we get our mission accomplished. So if
12 it's go from Point A to Point B and we have all
13 our sailors with us and the ship come out of it
14 unscathed.

15 So kind of an IMAX version in there. And
16 it's very, very realistic. I always enjoy it.
17 And I challenge you, if you ever come down to
18 Newport and you'd like to see it in action,
19 I'll bring you down there. You tell me what
20 class of ship you want to drive, we'll fire it
21 up and see how you do.

22 And my goal, as I told you earlier, is
23 maybe to even get you a little seasick. It's
24 that realistic.

1 The only thing we're missing is the sea
2 spray up there.

3 So -- but there you see. Now, LCS a
4 little bit different animal here. The Navy has
5 built two classes of LCS, but at least in the
6 trainers in order to go from one class to the
7 other, all we do is roll in a center console
8 and roll it back out. It's about a 20-minute
9 switch.

10 So again, we can do any ship the Navy how
11 has in its inventory. Okay.

12 Now, here's the real meat of what I wanted
13 to talk to you today.

14 So if you think of it this way, I just --
15 I asked my guys to pull up some stats of how
16 many hours we train.

17 So SWO intro, ensigns, very junior
18 ensigns, just new to the fleet going to their
19 first ship, an hour and a half of electronic
20 navigation training.

21 So all we want to do is get them to the
22 point where they can go on their ship and start
23 learning their ship's system, okay?

24 So we teach them the ins and outs of

1 electronic navigation. There's other things,
2 too. We're doing the chart work. All of that
3 is still in the schoolhouse. But I just wanted
4 to show you electronic navigation.

5 So remember, in this officer's mind, that
6 chart is 100 percent accurate and 100 percent
7 up to date. They don't question that, okay?

8 It used to be get the chart, you have
9 corrections along the right-hand side. Those
10 corrections are checked.

11 Now on electronic navigation, those
12 corrections come to us from NGA, come to us
13 with the latest corrections in there, okay?

14 So there's a checking function on the ship
15 that -- that these guys eventually will do, but
16 we're not there yet.

17 And then they come back after 15 to 18
18 months, do advanced ship-handling.

19 Now, you notice that's four hours, because
20 now they've already got some sort of
21 certification out on the ship in electronic
22 navigation through those -- those personal
23 qualification books, okay?

24 So that is their commanding officer on

1 their respective ship has certified them in a
2 certain level of navigation.

3 All we do is bring them in. We make sure
4 they've got it and do any remediation if we
5 need to to get them all up to the same level.

6 So if you took 100 ships and 100 ensigns
7 coming in, they're going to be at 100 different
8 levels for navigation, depending on the
9 training program, what was the quality of the
10 training program on the ship, 100 different
11 levels. When they leave us after that advanced
12 ship-handling class, every one of those ensigns
13 is at the same level in theory, or they don't
14 finish the course, okay? So that's the way
15 that works.

16 Now, here's where we really get them.
17 Department Head School is six months long.
18 That's where we teach the officers to fight the
19 ship, be a chief engineer or an operations
20 officer or a combat systems officer, but we
21 spend a lot of time in navigation in there, and
22 that really is just the tip of the iceberg.

23 A six-hour lab in electronic navigation
24 actually precedes bridge resource management,

1 paper navigation and so on and so forth.

2 So they get more than a prospective
3 commanding officer gets. There's two dynamics
4 that drive that. Number one, between being an
5 ensign and being a lieutenant, they've probably
6 been ashore -- they've been on two ships, and
7 then they've been ashore two to three years.

8 We want to get them back in the saddle
9 before we send them out to ships to be in a
10 critical billet on that ship.

11 And the other part of it is they provide
12 the backup for that commanding officer and that
13 second in command, the executive officer, in
14 all things navigation, all things safe
15 ship-handling and so on and so forth.

16 So we want to make sure they're, no
17 kidding, at the same level their prospective
18 commanding officers who might have 16 or 17
19 years of experience at sea that those guys had.

20 And then finally, the PXO/PCO, that's a
21 prospective commanding officer/prospective
22 executive officer, so first and second in
23 command. Sixteen-hour lab. Again, just
24 electronic navigation. Still do chart work,

1 bridge resource management and ship-handling.

2 And then major commanders, those are the
3 aircraft carrier guys, the big deck amphibs,
4 which I came from, the cruiser guys, and we
5 even put the commodore -- the destroyer
6 squadron commodores through here, too, because
7 they're still responsible for taking groups of
8 ships to sea.

9 And we give them labs, navigators as well.
10 And I've already talked to you about Littoral
11 combat ship.

12 By the way, just a tidbit, in VMS, which
13 was our program -- Admiral, wasn't that your
14 brainchild there?

15 So the Voyage Mission System is our
16 program of record for electronic navigation,
17 SWOs down there has the largest VMS lab in the
18 Navy, 32 seats.

19 And you can see with all the -- remember,
20 our school is a single-source school. Every
21 officer going to ships in the United States
22 Navy, okay, make up 91 percent of our students,
23 and the other nine percent is US Coast Guard
24 and international. We have a small

1 international footprint there as well. Okay.

2 Okay. So just a little bar chart to show
3 you here. And just the interpretation here,
4 those helmets, the virtual reality, that's the
5 blue right there. So here's ensigns and here's
6 very senior captains over here, and here's --
7 the axis over here on the left, 20 hours, and
8 these are minimums, by the way.

9 If somebody is having trouble, if they've
10 been sitting on the Joint Staff for three years
11 and been the PowerPoint ranger for three years
12 and they've forgotten everything they learned,
13 if it takes 40 hours, we're going to take 40
14 hours or they're not going to their command
15 until we get them to the point --

16 So these are just minimums, and some take
17 longer than others.

18 And I'll also add there that my last ship
19 in a line of seven was the first time I ever
20 went to the same class of ship twice. So every
21 time, every ship handles a little bit
22 differently, every ship class handles a little
23 bit differently, so we also --

24 By the way, the way that assign officers

1 to ship, we also have to teach them sometimes
2 how to drive that ship for the first time.

3 They always knew the right full rudder
4 from left full rudder, but how does that ship
5 actually respond to that?

6 The green, which is the biggest bar here
7 for a reason, is navigation, bridge resource
8 management and rules of road.

9 By the way, our standard is the Coast
10 Guard standard. It's the -- you know,
11 thousand-plus Coast Guard test bank. And the
12 minimum score for everybody from ensign to
13 major commander is 90 percent or you don't
14 graduate, okay?

15 And that I really feel is one of those --
16 it makes sense that we're doing, although we
17 don't offer a Coast Guard or a merchant
18 certification, if we're doing those same sorts
19 of things, that keeps us honest as far as our
20 education and our credentials at the school.

21 And then finally, the ECDIS-N here. So we
22 talked about the electronic navigation. Last
23 slide shows you where that fits in. If
24 somebody comes in, what we're finding right

1 now, except for the brand-new ensigns, most of
2 them have dealt with electronic navigation at
3 least once before.

4 Given another five years, it will be
5 natural to them, and we're just going to be
6 doing refreshers. But right now, one or two
7 students per class, we spend a little bit more
8 time.

9 And use that analogy of the GPS in your
10 car. These are great tools to learn, but don't
11 make them the only thing you rely on.

12 We still have radars. We take radar
13 bearings off of things when we're in -- you
14 know, close to land, visual bearings. And you
15 use good common sea sense when you have ships
16 out there.

17 So it's as simple as that, but you can see
18 the breakdown of what we train on.

19 So I just want to show you our student
20 body. On any given day, we have 300 students
21 on deck. These are the ensigns here. These
22 are the prospective major commanders going to
23 carriers, big deck amphibs and cruisers here.

24 So we spend most of our -- most of our

1 human capital is spent on those ensigns who
2 have been kind of like the midshipmen of old
3 sailing days where they've spent about a year
4 to a year and a half on their ship and now
5 we're giving them the real meat and potatoes of
6 their profession as far as taking ships to sea,
7 okay? So that's where we spend most of our
8 time.

9 And if you look at the curriculum, this
10 course is three weeks long. This is six months
11 long. So this is our critical mass, right in
12 here, all right? And they do get one shore
13 duty in between there.

14 Okay. That concludes the formal portion
15 of my brief. And here's what I want to be your
16 takeaway. Well, two takeaways.

17 Number one, if you ever make it down to
18 Newport, Admiral West can give you the contact
19 information, come see how we train people to --
20 to take -- the officers to take ships to sea.
21 I'd encourage you to do that, because it is the
22 premier school on the base, co-located with the
23 Naval War College, so it's easy to -- I think
24 all the signs bring you to the Naval War

1 College. Follow those signs, and you'll get to
2 our school down there in Newport.

3 But the big takeaway is what you talk
4 about here in these couple of days about
5 providing accurate charts and accurate survey
6 information going into those charts, there's a
7 lot of users out there, not just the United
8 States Navy and the Coast Guard, that give it
9 two more years for the Navy -- and the Coast
10 Guard is almost there by the way -- everything
11 that you put in there, everything you put in
12 there is assumed to be the most accurate, the
13 most complete information, okay, and there's
14 very little checking function, unlike days of
15 old where we hand-put all those changes in.

16 I think it's good, because even when we
17 were hand-putting those changes in, we were
18 also time late by a little bit. I think with
19 the electronic updates that we do now, you
20 know, right -- just satellite updates, I'm
21 telling you, that is the most accurate, most
22 current information, but it can't be garbage
23 in, garbage out. And if it is, then -- then
24 we've got a problem on the user end.

1 Okay. Subject to your questions, that
2 concludes my brief.

3 ED WELCH: Captain, thanks very much.
4 Andy Armstrong.

5 ANDY ARMSTRONG: Captain, thank you very
6 much.

7 CAPTIAN NEIL PARROTT: Yes, sir.

8 ANDY ARMSTRONG: I'd like to sort of
9 follow up on with you on the garbage in,
10 garbage out, although I wouldn't -- I wouldn't
11 say we're sending you garbage, but there is
12 uncertainty in the data that's on the NOAA
13 charts, and I'm -- I'm interested in how you
14 think we ought to portray that uncertainty to
15 you and the other users in the Navy.

16 CAPTIAN NEIL PARROTT: I think what I
17 would key in on is time lateness of the data.

18 So when I get an update on a chart, for
19 instance, Saipan -- let's see, with Saipan
20 Harbor was the last harbor that we had a
21 cruiser run aground in based on what he knew
22 was very shallow --

23 And now remember, he has the sonar down 32
24 feet down, screws about 23 feet, and I -- I

1 think the situation was his -- he was already
2 guided to port safely, but there was such a
3 storm there in port that when he was trying to
4 get out, parting mooring lines and trying to
5 get out, there was such pitching going out that
6 his sonar dome brushed the bottom.

7 The thing is -- and fortunately, I think
8 common sense prevailed. I think I would have
9 gone underway, too, and taken the risk, was
10 that the chart was so -- the chart data was so
11 old, okay, that -- that then I would maybe just
12 going into the port say I don't know if -- I'd
13 probably have done some lead lining. It's easy
14 for me to armchair quarterback.

15 So what we teach, sir, what we teach is be
16 wary of any of that data. When in doubt, you
17 need to check, okay? So oftentimes we're going
18 into a foreign port like Saipan, and we may
19 have a chart on the ship, whether it's
20 electronic or paper. We will chat with the
21 local authorities and see what the most current
22 chart data is. Do we have it? If we don't,
23 how do we get that out to us.

24 So we teach them to be wary. It's our

1 responsibility to make sure we have the most
2 current information. And don't take my garbage
3 in, garbage out as a cynical stab at your
4 organization. You provided us good information
5 over the years, accurate information.

6 We are at the -- we must be of the mindset
7 you can trust, but you must verify. And that's
8 good principles of safe navigation, and it's as
9 simple as that.

10 And if anything, if I can get across --
11 you may be a good navigator, a good ship, but
12 you need to -- need to verify what the depth is
13 in that port. You need to verify what the
14 current marks are. And when in doubt, you may
15 have to make a tactical decision either not to
16 bring that ship into a port or -- or, you know,
17 anchor out or something like that.

18 So the monkey is truly on our backs as
19 navigators. Use the tools you have, but also
20 know the accuracy of those tools.

21 And, after all, if a port -- you know, a
22 couple of years ago we went into Vietnam for
23 first time in three decades. I'm going to tell
24 you, I've been to that -- that port hadn't been

1 surveyed in three decades.

2 ED WELCH: Captain -- oh, I'm sorry, Andy,
3 go ahead.

4 ANDY ARMSTRONG: I was just going to
5 follow up by saying there are a number of US
6 ports that haven't been surveyed in 30 years...

7 CAPTIAN NEIL PARROTT: A good example, if
8 we get into -- New York City Fleet Week,
9 everybody wants to get into, very well
10 surveyed, so on and so forth --

11 Again, I'm talking about ships with sonar
12 domes that are pretty deep. How many people
13 know the accuracy of Mobile -- going into
14 Mobile, Alabama. We used to have a Naval base
15 there, by the way.

16 So again, the -- the CO and the navigator
17 needs to ask those questions. And -- and when
18 in doubt, it's -- it's a tough thing for a --
19 you know, a commander in a Navy to tell maybe a
20 flag officer I am not going to go into that
21 port even though it's a high-visibility port
22 that I'm expected to go into because I don't
23 feel it's safe.

24 So it's -- it's our job to use the tools

1 that you give us with all the caveats on when
2 it's been surveyed.

3 You know, what worries me more is that we
4 take these electronic navigation -- see, we see
5 them on a video screen, and we assume that it's
6 very accurate because it's an electronic
7 version of a chart. What we teach up there is
8 you must know what --

9 We had an LST run aground in the early
10 days of using GPS off of Chile there, and you
11 could just look over the bridge and she ran --
12 drove herself right into the rocks.

13 Well, the thing is, she was not on WGS 84.
14 You know, classic mistake. I still make -- I
15 don't even remember what year that was, but
16 I'll just say it was probably 15 years ago.

17 I still make every one of my students --
18 in fact, I've got a lecture at 1400 today on
19 that case study, and the USS ARLEIGH BURKE, our
20 oldest destroyer in the Navy now, USS ARLEIGH
21 BURKE in her own home port going down Thimble
22 Shoals Channel did a soft grounding because her
23 system was walking itself off and nobody
24 recognized it in their own home port.

1 Easy for me to armchair quarterback, but
2 you really don't need any navigation if you're
3 in your own home port and you have clear
4 weather. You've got plenty of marks to look
5 at.

6 So that's what we have to teach, sir, I
7 know I danced around the answer to your
8 question, but we don't -- we do not -- I don't
9 advocate assuming that those charts are 100
10 percent accurate. Most of the time they are.

11 What I'm seeing out there is they're very
12 good, very good charts. But a lot of places in
13 the world that don't have current survey or no
14 surveys at all.

15 ED WELCH: Any other comments from the
16 panel? Gary.

17 GARY JEFFRESS: Gary Jeffress.

18 I assume each of your 272 vessels have
19 sonar, right?

20 CAPTIAN NEIL PARROTT: No, sir. No, sir.

21 The -- the destroyers, frigates and
22 cruisers have sonar, but we all have a
23 fathometer. We can all check the depth of our
24 waters.

1 GARY JEFFRESS: And they're all calibrated
2 from time to time so that they're accurate?

3 CAPTIAN NEIL PARROTT: Depends if they
4 have a calibrate -- like any device on a vessel
5 like that, if you don't accurately calibrate,
6 your fathometer can get out of calibration.
7 There are daily checks for that.

8 GARY JEFFRESS: And so when you're just
9 doing missions all over the place and you're
10 going to different ports around the world, you
11 have these things on, so you're looking at the
12 depth.

13 Do you record that and say you could use
14 that data to then update charts?

15 CAPTIAN NEIL PARROTT: Yes, sir.

16 In fact, I'll tell you, that cruiser that
17 I briefed you on that ran aground off Hawaii,
18 the whole day -- they had been up in the dry
19 dock. They were underway for the first time in
20 four months. The whole day their fathometer
21 read 11 feet beneath the keel.

22 That -- I have a little bit of a hard time
23 saying you had the device there -- clearly it
24 wasn't working. No one even recognized it

1 wasn't working.

2 You know the depth is going to change
3 throughout the day, and they went 30 miles out
4 and came back. They know the depth is going to
5 change.

6 So it's -- it's my responsibility to train
7 that those devices have to be used -- and, I'll
8 tell you, you know, the armchair quarterbacks
9 of our organization say, well, the fathometer
10 wasn't working, you shouldn't be out to sea in
11 the first place. Well, they didn't know it
12 wasn't working until they got out to sea.

13 It had been worked on in the shipyard, by
14 the way. By the way, that was a -- the leads
15 were crossed, so all the lights came on, but it
16 didn't function like it was supposed to

17 But even then, you still have a lead line,
18 and you still know your own waters. It would
19 be different if they were in Timbuktu maybe,
20 but you still -- you still -- you know your
21 home port.

22 Oh, by the way, one of the things that we
23 brought into the schoolhouse here that I do get
24 a little bit of pushback -- who are the people

1 that take ships to sea here? I see a captain
2 here, so --

3 TOM JACOBSEN: Pilot.

4 CAPTIAN NEIL PARROTT: So here's the --
5 here's the -- this is an old trick that
6 probably someone like Admiral West made me do
7 when I was a young officer.

8 These commanding officers, lieutenants,
9 ensigns, now have to draw their home port chart
10 from memory. Remember that trick? And you
11 have to -- we got that from the pilots, by the
12 way.

13 TOM JACOBSEN: Mm-hmm. Mm-hmm.

14 CAPTIAN NEIL PARROTT: So this is the sort
15 of thing came that you've got to appreciate
16 safe navigation practices. You can have the
17 best chart in the world, but if you don't
18 follow safe navigation practices, you almost
19 deserve what you get.

20 So I teach -- we teach safe navigation
21 practices up there.

22 As you can imagine, our Navy ships, Coast
23 Guard cutters, submarines are all loaded with
24 all sorts of devices. If you turn the

1 electronic navigation off on a clear day --
2 I'll say for ships, I don't know quite how
3 submarines do it, but the thing is that you
4 turn it off, you ought to be able to navigate
5 in your own home port, in a known port, I'll
6 say that, if you've -- if you've studied that
7 chart. So on and so forth.

8 Thank you very much for the question.

9 ED WELCH: Captain, thank you. It's been
10 fascinating presentation.

11 So where can we sign up for coming down to
12 visit you in Newport?

13 CAPTIAN NEIL PARROTT: You can see Admiral
14 West. I'm neil.parrot@navy.mil.

15 If you're coming down, let me know and
16 we'll figure out how to get you into the
17 schoolhouse there.

18 ED WELCH: Very good. Thank you, sir.

19 CAPTIAN NEIL PARROTT: Yes, sir.

20 ED WELCH: All right.

21 Our next presentation is by Captain Greg
22 Gifford from the Woods Hole to Martha's
23 Vineyard and Nantucket Steamship Authority.

24 Greg, welcome.

1 He's going to talk about marine spatial
2 planning from the viewpoint of navigation user

3 CAPTAIN GREGORY GIFFORD: I'll just
4 sidetrack a little bit --

5 ED WELCH: Greg, I think you're probably
6 going to need to talk into the mike.

7 CAPTAIN GREGORY GIFFORD: Everybody says I
8 yell a lot.

9 I sympathize with the Captain a little
10 bit. I was in the merchant service all my
11 life, and the saying in the merchant service is
12 if it's gray, stay away. I guess there's not a
13 lot of mariners here.

14 Just --

15 ADMIRAL WEST: I take exception to that.

16 CAPTAIN GREGORY GIFFORD: Brief overview,
17 I started going to sea in 1968 and worked my
18 way up through the house pipe. I didn't go to
19 an academy or anything. I finished my career
20 up sailing master for a number of years on
21 tankers.

22 I have about 22 years on tankers and 15
23 years or so on different type vessels, box
24 boats, rail rows [phonetic], things of that

1 nature.

2 For many years I was worried about
3 spilling oil. Now I worry about spilling
4 passengers, and it helps me out quite a bit in
5 the PBA.

6 So I got a little background going to sea,
7 working with NOAA and charts and seeing going
8 from paper charts with regular corrections to
9 ECDIS to the electronic chart displays, and
10 it's an interesting transition that we've had
11 and you guys do a great job.

12 Ed asked me to speak on this marine
13 spatial planning and traditional navigation
14 users. The Steamship Authority, a little
15 background, we've been tasked by legislation
16 back in the '60s to provide safe, reliable and
17 adequate service utilizing historic routes to
18 the islands of Martha's Vineyard and Nantucket
19 off the Massachusetts coast.

20 I guess I can do that. It's a little
21 fuzzy. I was under a little bit of pressure to
22 get this together.

23 So just so you see, these are the routes
24 here, Hyannis to Nantucket, and then Woods Hole

1 to Martha's Vineyard. Two ports in Martha's
2 Vineyard. Slightly off the Kennedy Compound.
3 We'll get into the Kennedy Compound a little
4 later.

5 We complete over 22,000 transits a year,
6 combined to those two. On the run from Hyannis
7 to Nantucket, just under 8,000 trips a year.

8 The numbers are down a little bit now, but
9 closer to three million passengers and 600,000
10 cars and trucks. Several of those vehicles are
11 trucks that run hazardous materials, such as
12 LPG, gasoline and heating oil for the islands.

13 We've been involved in a project in our
14 area for a number of years, since I started in
15 2003, and I've testified and spoken at numerous
16 hearings, meetings, forums, informal meetings,
17 other gatherings and some right now escape me.
18 It's been quite a few things.

19 I've penned numerous letters to federal
20 agencies with regard to safe navigation issues,
21 traveled to DC and met with three -- at
22 different times -- assistant commandants for
23 Marine Safety, Security and Stewardship for the
24 Coast Guard as well as Minerals Management

1 Service.

2 Those meetings were specific to the safe
3 navigational aspects of this project and the
4 influence fixed structures in navigable
5 waterways will have on marine traffic and
6 commerce.

7 I also met personally with the commandant,
8 thanks to Ed, at the PVA conference out in San
9 Francisco and discussed those things, historic
10 ferry routes, safe separation zones from these
11 projects, ice floes, and certainly paramount to
12 all this, public safety.

13 One question that still is being -- being
14 unanswered for this particular project is the
15 terms and conditions that the Coast Guard is
16 supposed to be letting everyone know for this
17 project, which involves marine spatial planning
18 in federal waters, not in state waters.

19 This chart -- don't use this chart for
20 navigation, please. Some of the layovers --
21 and I put up positions that are approximate, so
22 to get all the layovers, it -- it was a little
23 difficult.

24 However, these are -- historic ferry

1 routes are run down here. These are the main
2 shipping channels. This one goes out to Great
3 Round 1, which is Nantucket Shoals and Georges
4 Bank where one of the largest fishing fleets in
5 the United States out of New Bedford travels.

6 They travel in a westerly direction
7 west-east and east to west back in the main
8 shipping channel.

9 These are historic ferry routes here, some
10 of which were -- another carrier runs from
11 Hyannis to Martha's Vineyard.

12 The wind park site isn't in that -- it's
13 an approximate area, but it takes up about 26
14 square miles of nautical miles of which is
15 called Horseshoe Shoal.

16 Eighty-five percent -- you hear the word
17 "shoal," and you think of very shallow water,
18 two feet, three feet.

19 Eighty-five percent of that water we can
20 safely navigate in, so it's -- it takes up a
21 large space. This is a simulated view.

22 Over to the left is -- I mentioned Kennedy
23 Compound and what this 130 wind towers will
24 look like looking from land.

1 And this is most recent, just came out of
2 the New Yorker. It's a little stab at -- he's
3 a local guy from Chatham, Massachusetts, a
4 local stab at the wind farm.

5 To go back, we participated in the Mass.
6 Ocean Plan and President's Ocean Policy. I
7 testified in Providence with one of Ed's
8 colleagues, Beth [inaudible], and both of these
9 entities have to address all the same concerns
10 that I have, not just -- not just the state of
11 Massachusetts, but Rhode Island, Delaware, New
12 Jersey, on all three coasts, and other areas.

13 But the proposals are for the coastal,
14 near coastal, sand mining, small large clusters
15 of wind turbines, hydrokinetic generators in
16 federal and state waters will definitely have a
17 major impact on all of those waterways.

18 I'll get to the reason of how NOAA is --
19 should be very concerned with this.

20 And as the waterways become more crowded
21 with potential alternative energy projects,
22 it's essential that the government programs
23 such as these, the spatial planning and in
24 particular Mass. Ocean Plan for me -- keep in

1 mind, jurisdictional boundaries of all
2 regulatory bodies and their input with
3 cooperating agencies, in some matters, mostly
4 the Coast Guard.

5 That being said, there must be oversight
6 that considers all aspects of the safe
7 navigation for vessels that operate in those
8 proposed areas of alternative energy
9 structures.

10 In other words, listen to the experts.
11 Commercial, recreational, law enforcement and
12 others are on the water daily, know the
13 dangers, know the obstructions and know how to
14 mitigate that risk of collision.

15 Also ensuring regulatory bodies collecting
16 and deciphering that data that they get to
17 ocean planning, whether it be state or federal,
18 that they have the knowledge base to make the
19 correct recommendations.

20 And one of the coined phrases from the
21 Coast Guard is risk-based decision-making
22 certainly comes to mind in these instances.

23 Consideration must be given to all these
24 factors evaluating these proposed projects.

1 And once again, listen to the experts. Listen
2 to the stakeholders that are out there in this
3 ocean plan.

4 These additional ventures will have the
5 potential for creating significant hazards to
6 safe navigation of all types of vessels
7 operating on a coastal and near coastal waters.

8 Simply moving the vessel's track line
9 further east, west, north or south is not an
10 option.

11 The PVA, as stated, the ferry routes and
12 other traditional navigation lanes are located
13 where they are for a reason, siting -- among
14 other things -- economics, safety, geography,
15 weather, water depths as key factors.

16 An operator should not be forced to alter
17 the historic or establish routes to accommodate
18 new fixed-structure uses of the waterways.

19 In addition, consideration must be given
20 to the interference to marine radars created by
21 certain structures that are positioned in and
22 adjacent to near established shipping lanes and
23 other historic routes on waterways that skirt
24 the coastlines.

1 Setbacks must be considered to allow for
2 target swap, false targets, radar shadowing.
3 And erroneous information may create risk of
4 collision or grounding, potentially resulting
5 in a pollution incident.

6 2004 study by the Coast Guard and Maritime
7 Agency in the UK concluded that there is
8 interference on marine radars due to the wind
9 turbines and found to be considerable, and a
10 suitable safe distance of one to two nautical
11 miles be established from those traffic routes.

12 Environmental impacts, such as wind, sea
13 conditions, tidal current effects, ice floes
14 all must be taken into account when considering
15 placement of fixed or floating structures, as
16 they may preclude vessels from utilizing areas
17 outside of the normal routes.

18 From time to time, define the seasonal
19 management or dynamic management areas are
20 established to prevent -- for the preservation
21 of the North Atlantic right whale along the
22 Massachusetts and southeastern Massachusetts
23 coastline.

24 These areas certainly have effect on

1 shipping lanes and shipping routes and the
2 operations of vessels within and adjacent to
3 those management areas.

4 As with the environmental impacts,
5 avoidance of these seasonal and temporary
6 areas, coupled with placement of fixed or
7 floating structures may hamper the safe
8 navigation of vessels in those areas.

9 Stakeholders opinions and oversights for
10 the many aspects of safe navigation for vessels
11 that operate in proposed areas of alternative
12 energy structures should be considered by the
13 President's Interagency Policy Task Force and
14 participating coastal states and ocean planning
15 programs.

16 These are some of the obstacles that will
17 be presented to local stakeholders and
18 operators, not just in my area but on all three
19 coasts.

20 And wherever these site are planned,
21 they're going to have to be well planned out.

22 Coastal and marine spatial planning must
23 include all affected by any of these proposals
24 prior to any final approval.

1 This is -- this is the area of the
2 Massachusetts plan for the state waters where
3 they intend on doing things such as sand
4 mining, small clusters of wind turbines and the
5 hydrokinetics, and energies.

6 You notice there's kind of a doughnut hole
7 here, and that's federal waters within
8 Nantucket Sound, strangely enough.

9 I was kind of one of the plank owners, if
10 you will, of the Mass. Ocean Plan, and somehow
11 I am not on it anymore. I'm not sure why.

12 But I was adamant that they put the
13 proposed wind farm and the 26-nautical-mile
14 footprint within that so that everyone
15 understands going through this Mass. Ocean Plan
16 within the state waters that somehow, somewhere
17 people are going to be affected by this -- by
18 this proposed site.

19 How does NOAA fit into all of this? NOAA
20 will be called upon to address the changes in
21 the charting as the accurate rendering of the
22 relocation of ATONs, the channel markers,
23 numerous surveys done due to the possibility of
24 changes in bottom contours caused by fixed

1 structures, which are the monopiles.

2 In this particular case, it will be 130
3 16-foot-diameter monopiles put within that
4 26-nautical-mile footprint.

5 There will be changes to the seafloor.
6 There's areas in there that have sand waves,
7 because it is a sandy area, up to eight feet
8 high.

9 NOAA will also be tasked with ensuring if
10 there are separation zones, all those -- the
11 other ATONs that are moved are in the proper
12 areas. Again, it's going to be burden of the
13 mapping of these changes to ensure that safe
14 navigation for the many users of the waterways
15 and most of all that ensure public safety.

16 The Steamship Authority is committed to
17 the safety of the traveling public and the
18 maintaining of safe and reliable waterborne
19 transportation to the islands of Martha's
20 Vineyard and Nantucket.

21 That being said, we're not a private
22 entity. We just can't tie up because the
23 weather's nice and we want to go fishing or
24 because the weather's rough.

1 We are mandated -- again, by
2 legislation -- to run up to the 22,000 trips,
3 or even more if the islands so desire that we
4 need more. We don't have a choice. We have to
5 run. We've had a couple of incidents. We've
6 had an LPG truck roll over on one of our
7 freight vessels.

8 It is a very serious business. However,
9 just moving our routes to a different area is
10 going to be difficult.

11 Again, this is -- this is the same
12 footprint that they have. This is recreational
13 boating and fishing areas that they've
14 identified by the Mass. Marine Trades
15 Association.

16 All these lines are recreational boater
17 uses that go out to the limits of the state
18 waters. They don't show them going out in the
19 federal waters. Of course they go out in the
20 federal waters, because there's a lot of
21 recreational traffic that goes back and forth
22 to Nantucket.

23 Buzzards Bay is extremely busy with
24 recreational traffic, as is Cape Cod Bay.

1 This is infrastructure navigational lanes
2 and transportation routes. These are historic
3 ferry routes. This is a ferry vessel that runs
4 out of Chatham in the summer months.

5 These are the Steamship Authority's routes
6 here, as is here. As you can see, as things
7 start to get overlaid, things are starting to
8 get a little confusing.

9 Unfortunately, I fought to try to overlay
10 everything so it would be a real mess, but you
11 can kind of get an idea what it would look
12 like.

13 This is exclusionary criteria for
14 habitats. This is all the National Seashore
15 and areas where they don't want to put
16 anything. However, now you're still layering
17 more restrictions, if you will, on what the --
18 these state water uses are.

19 Again, the doughnut hole only has a little
20 bit put in there, the federal waters, and
21 state -- the state areas are really filling up
22 with things.

23 These are sensitive areas. This is almost
24 everything put over on top of everything.

1 Again, recreational boating, ferry routes.
2 Where are they going to put these structures,
3 wind turbines, kinetic -- hydrokinetic energy
4 units? And also the sand mines? It's going to
5 be very, very difficult to navigate through
6 that area.

7 States and the federal agencies have to
8 work together. And also, again, with the
9 stakeholders. They have to include the
10 stakeholders in all these things.

11 Again, going back to NOAA, it's going to
12 be NOAA's responsibility to ensure that where
13 these things, they know where they are.

14 They're going to move these hydrokinetic
15 machines. They're going to move them around.

16 What kind of things are they going to do
17 with sand mining? What's going to happen to
18 the bottom contours? All of these things are
19 going to have to be accurately depicted.

20 In the federal waters, there's enough
21 water for us to navigate. Again, moving our
22 historic routes or any historic ferry routes or
23 shipping lanes that have been there, yes,
24 they're very --

1 It was difficult, but they did move the
2 shipping lanes to protect the North Atlantic
3 right whale, and it progressively is pushing
4 the vessel and merchant vessels -- Naval
5 vessels I guess can go wherever they want.

6 It's getting more difficult to safely
7 navigate. Again, this goes back to NOAA to
8 ensure -- ensuring that the information that we
9 get, whether we use ECDIS or the paper charts,
10 that we have accurate information so that we
11 don't have any kind of accident.

12 Thank you.

13 ED WELCH: Thanks, Captain Gifford.

14 I guess one question which we would put to
15 NOAA and, at the proper time, our panel, is how
16 does NOAA systematically monitor the
17 introduction of new facilities or structures or
18 different changes that are going to then
19 necessitate NOAA making the changes in the end,
20 in the priorities of their charting and
21 surveying and other activities.

22 Other questions from the panel? Captain
23 McGovern.

24 CAPTAIN ANDY MCGOVERN: Thanks.

1 Just to give you a heads-up, in New York
2 we're starting, and then we're also starting to
3 push north and south from New York, in
4 partnership with NOAA and the Coast Guard is
5 developing safety fairways, similar to what
6 they have in the Gulf, but the ones in the Gulf
7 are put in kind of as an afterthought after a
8 lot of it was already in place.

9 And with all these plans for, you know,
10 all these alternative energy projects, we
11 figured it's best to get these safety fairways
12 put in before so that at least you've got the
13 areas for shipping and for recreational boats
14 and for -- for, you know, other uses, you know,
15 fishing, et cetera, so that they're already
16 laid out. And then these developments will
17 have to happen outside of those safety
18 fairways.

19 So it's something we're starting. You'll
20 probably be getting a call soon, but we're
21 starting to reach north and south from New
22 York, and we figure we've just got to do this
23 on the entire East Coast will be easiest way to
24 do this.

1 CAPTAIN GREGORY GIFFORD: Probably.

2 I think it's a little late for Nantucket
3 Sound, but they did establish a new -- after
4 the B120 spill at Buzzards Bay, which was a
5 98,000-gallon six oil spill, and the
6 unfortunate thing --

7 Captain Landry was this charge of
8 Providence at the time, and now she's in it a
9 little bit deeper in the Gulf, but they
10 established a suggested route. And now with
11 AIS being implemented on all the vessels and
12 the Corps of Engineers tracks those vessels,
13 Massachusetts -- the Mass. DEP have -- has gone
14 back to court again not to detract from
15 ferryboats, but anyway, this is -- I had more
16 time on merchant ships than I do on ferryboats,
17 so...

18 That they are -- they're requiring a state
19 pilot ride, pick it up down in Cleveland Ledge
20 Channel and ride it through.

21 So right now, there's a lot going on.
22 There's court cases, states being kind of
23 called on the carpet for -- with the federal
24 government as the state's superseding the

1 federal government policies.

2 When I was on tankers my last five years,
3 I ran from Texas to the West Coast, LA Long
4 Beach, San Francisco, Portland, Oregon,
5 Washington state.

6 Going into Washington state, there was --
7 Washington state would come on my ship and say
8 I want to see overtime records and work hours
9 and all this. And I would say no, that's
10 proprietary information. You're not going to
11 get that. Well, we can throw you off the dock.
12 And I ended up throwing him off and the Coast
13 Guard came down and said that probably wasn't a
14 good idea. But I did it anyway.

15 The bottom line was Intertanko filed suit
16 against the State of Washington for superseding
17 federal regulations. They wanted -- they
18 wanted us to put two more people on the bridge
19 and six more people on the vessel.

20 And so the states have to understand
21 that -- and again, I spoke about jurisdictional
22 boundaries and the cooperation between federal
23 and state.

24 And also the stakeholders, like, you know,

1 New York, you got Maersk Line, Stolt-Nielsen,
2 many, many different organizations going in and
3 out of New York and up and down the East Coast.
4 You throw in a couple of whales, it throws
5 everything off.

6 So thank you, unless there's more
7 questions.

8 ED WELCH: Okay.

9 Any other questions? Okay. Thanks,
10 Captain.

11 You know, one thing that those -- those
12 overlay slides do illustrate is there are a lot
13 of uses in those open oceans. And of course
14 that might be one -- one justification for
15 ocean zoning or marine spatial planning.

16 But on the other hand, what looks to a lot
17 of people as sort of open, unused space, it is
18 not really open, unused space.

19 So thanks very much for your presentation.

20 Okay. We now are going to switch from
21 Massachusetts to Rhode Island, and Grover
22 Fugate.

23 Welcome.

24 GROVER FUGATE: Thank you.

1 Actually, that was a good segue, because
2 that's exactly what I was going to open up
3 with.

4 ED WELCH: Sorry about that.

5 GROVER FUGATE: No problem. No problem.

6 We also have engaged in an effort somewhat
7 different in Massachusetts, somewhat similar.
8 But one of the conclusions as you get into this
9 very rapidly is that I think the common person
10 has an understanding when they look out there,
11 there's not a lot going on; but as you
12 understand start to understand what is out
13 there, you realize there is a lot going on.

14 And I think that's one of the reasons that
15 a lot of states are looking at marine spatial
16 planning.

17 A lot of states on the eastern seaboard
18 are looking at it from an energy perspective,
19 too.

20 I am a member of an Atlantic Governors
21 Consortium, which represents states from
22 Florida to Maine, and I can assure you every
23 one of them is looking at offshore energy as
24 a -- not only as an energy source but also as

1 an economic driver for their states.

2 If you look at electrical generation and
3 usage in this country, almost 80 percent of the
4 electricity is consumed by 28 coastal states.
5 So it is very much a coastal issue in terms of
6 energy consumption.

7 And if we start to throw in climate change
8 and dealing with that, it's going to become
9 more imperative, I think, that the coastal
10 states start to look at this.

11 The project-by-project basis I would
12 suggest is not the way to go about this. I
13 think a planning effort and looking at the
14 existing uses and then trying to, if you want,
15 shoehorn these projects in, because in some
16 areas it gets very busy, and that's pretty much
17 what you're doing, I think that's the better
18 approach, going into it with eyes wide open,
19 knowing what the uses are.

20 With that, I'm going to show you some of
21 the mapping products and some of things that
22 we've actually been working on.

23 I am trying to generate -- and it may be
24 of interest to the board, because these are

1 products I would suggest sometimes NOAA might
2 be able to expand some of the work that they're
3 doing and actually provide more useful
4 information.

5 We're using what's called a Special Area
6 Management Plan process. We are a coastal
7 program out of NOAA, and as such, we use these
8 SAMPs, Special Area Management Plans. For us,
9 they're ecosystem-based tools.

10 And in Rhode Island, actually, we have
11 zoned the waters of the state within the
12 three-mile limit. This is the Port of
13 Providence, and what you'll see is we have six
14 use categories. The predominant one that
15 you're seeing here is type six, which is
16 dedicated to industrial and port-related uses.

17 So in navigational waters within the state
18 are protected as a navigational entity by the
19 program. Each of our water types carries
20 appropriate uses and inappropriate uses that we
21 will not allow.

22 And each of the uses that are allowed also
23 carry standards that they have to meet in order
24 to get a permit, even though it may be an

1 accepted use within them.

2 This plan was actually adopted in 1983, so
3 we have a history of 27 years of marine spatial
4 planning in the state, so we know a little bit
5 about it.

6 As I indicated, each of the water types
7 carries a set of policies and appropriate uses,
8 and we also for each use have a set of policies
9 and standards for each of those uses.

10 This document now is going out and is
11 looking at not just the state waters, because
12 we already have zoned all those state waters,
13 but it's going 30 miles offshore.

14 The reason we did that is we are primarily
15 getting funded through a readable energy grant.
16 So not only are we looking at marine spatial
17 planning, but we were also supposed to see if
18 we can fit this new kid on the block out in
19 this ocean space.

20 We chose 30 miles, because 20 is the
21 practical limit for AC transmissions for these
22 structures. And we wanted to have a good
23 ten-mile overlap on any dataset we would
24 generate so we would understand what was going

1 on the other side of the line.

2 In addition, what Rhode Island did is we
3 were able to cobble together by this time
4 almost \$10 million to go out and to data
5 collection.

6 Data is very sparse even within the
7 three-mile limit. But when you get even beyond
8 state waters, the datasets drop off. Most of
9 the data that we saw existing out there was
10 generated in the '50s and '60s and is obviously
11 past its useful life in many cases for those
12 data, but it's the only thing that we have.

13 So we pulled together all the existing
14 data, and then we started to go out and
15 generate new data and new data sources.

16 I should also mention that we're working
17 in collaboration with the University of Rhode
18 Island, and we have about 60 scientists and
19 policy people that are working on this project
20 outside the University of Rhode Island that are
21 assisting us both with the data collection and
22 generation and then a simulation and a plan.

23 One of the things that we look at -- and
24 when you're looking at trying to figure out

1 where you this new kid probably should go is
2 you want to know, one, what the resource is,
3 whether it's even worth going out and planning
4 for; and then two, what areas you shouldn't put
5 it in.

6 So we had a series of exclusionaries that
7 we were going to take off from consideration.

8 Part of that also was because although ten
9 million sounds like a lot, because you're using
10 platforms that cost \$20,000 a day, it runs out
11 very quickly. And you need to focus your
12 efforts in research in a concentrated effort so
13 that you can get useful information in those
14 areas that actually show promise.

15 We have narrowed it down to wind resource,
16 because one of the first exercises that we went
17 through is we actually evaluated what was
18 commercially available out there in terms of
19 marine renewable energy technologies and then
20 assessed each of those for environment.

21 And the only one that shows utility-grade
22 promise right now is wind for our state. We're
23 micro-tidal. We have a tidal exchange of less
24 than a meter, so in-stream current is not going

1 to be useful.

2 Wave is generally a West Coast phenomenon,
3 because of the prevailing westerlies. Again,
4 we don't have a wave climate given current
5 technologies to generate anything.

6 So the one thing we were left with really
7 was the wind energy.

8 This is the actual planning boundary. The
9 yellow lines represent the state jurisdiction
10 for this, and what we also did before we even
11 started this is we reached out to MMS, who is
12 the principal entity for regulating wind power
13 in the offshore, the OCS, and we reached out to
14 the Army Corps, because they tend to be the
15 primary permitting entity within state water.

16 So we wanted to do this as a joint effort
17 with those two agencies, cross-jurisdiction,
18 both state and federal waters.

19 This is a wind map, and one of the things
20 that I should note for you is that if you think
21 that the charts and whatnot are problematic,
22 this data is all model.

23 There are no data collection devices that
24 are collecting at 80-meters hub height right

1 now in the offshore environment.

2 Eighty meters is what the banks look for.
3 So in many cases, the banks and insurance
4 companies become de facto regulators on a lot
5 of this, but the company -- before they can get
6 financing -- will need three years' data at
7 80 meters before they can go.

8 What there is is model data. And the
9 other thing that I'll note for you is that the
10 power production function off of these turbines
11 is a cube of the wind speed. So a small change
12 in wind speed means a huge number on the power
13 production side.

14 Hence, they're trying to get in these
15 offshore waters to get the most out of these
16 structures.

17 One of the other things that we had to
18 consider is that this is a marine construction
19 operation, and we wanted to rule out areas that
20 may be problematic.

21 And, of course, as I said, the datasets
22 that we had are best guests on most of the
23 marine geological conditions. But we used two
24 people that together between them had probably

1 almost 80 years' experience in the marine
2 environment off our waters and asked them to
3 come up with their best guess as to where these
4 moraines are.

5 Now, moraines are concern because they
6 look like this. This is the bluff off of
7 Mohegan Bluffs on Block Island. It's a
8 terminal moraine, and they're very complex
9 geological environments.

10 And as a consequence, they have also
11 suffered multiple glaciation events. So this
12 gray material has been compacted by several
13 glacial events, has a consistency of bedrock
14 almost.

15 The boulders in there, some of them are
16 the size of houses, and they tend to be
17 granitic material. Not a very good environment
18 for driving piles.

19 Most of the marine construction operations
20 for these would either be pile-driving or
21 cable-laying. Neither one of these you really
22 want to really do this in this environment.

23 If you have to convert to a drilling
24 separation, your cost can go up by orders of

1 magnitude of two to three.

2 So based on their guess -- and we pushed
3 them a little bit further over the edge and
4 asked them to come up with an ease of
5 construction map, which they did.

6 All this, again, was to try to put
7 together new tools that we didn't really have
8 at the time to start and to weight and sort
9 areas out for so that we would be able to folks
10 our intensive research efforts on those areas
11 that showed promise.

12 So using this data, and also some other
13 data, this is the AIS vessel track data which
14 we purchased for this period of time. And this
15 is what the raw data looks like, as you're
16 probably aware. Pretty much useless to us,
17 because whether that vessel goes there once or
18 a thousand times, it shows up on the chart.

19 So what we had to do is we gridded this
20 system off and bin the data.

21 So if we use five vessel counts through
22 the area, this is what it looks like. If we go
23 with 50, the navigation patterns tighten up.

24 We wanted to know this, because although

1 there are navigation routes, the vessels don't
2 stay in those routes all the time. And we
3 didn't want to interfere in areas that were
4 heavily used by commercial navigation.

5 This is VMS data. So this is your fishery
6 picture now. And you can see what the routes
7 are for the fishermen and where they tend to
8 concentrate their activities. But again, this
9 dataset is another set that's out there.

10 Now, this is one that NOAA's enforcement
11 branch handles. And to gain access to this,
12 you have to sign a confidentiality agreement.
13 It's very difficult to get and manipulate for
14 the public to start to understand this, because
15 vessel positions in fishing spots are
16 proprietary data, so...

17 What we also had to consider is because
18 visual is one of the primary regulatory issues,
19 it seems, these days, we also wanted to
20 understand what the visual impacts were.

21 So these are visual siting moraines.
22 Essentially what you're looking at is you want
23 to be about 15 kilometers off given the current
24 turbine size that's in use.

1 I should just state right now that most of
2 this has been designed for
3 three-and-a-half-megawatt turbine that are
4 about 315, 320 feet tall. There are newer
5 generations of turbines already coming out at
6 five megawatts, 512 feet tall. And they've got
7 a ten-megawatt machine on the drawing boards.

8 So these things are getting massive. And
9 part of the issue with the marine issue versus
10 the land system, the land system is pretty well
11 capped at three-and-a-half megawatts, and the
12 reason for that is they just can't move the
13 pieces on the road systems.

14 So the only way they can move these major
15 pieces is on water, and so there's -- right
16 now, the limiting factors in terms of the size
17 of this seems to be the blade design.

18 One of the tools we helped or developed at
19 the ocean school -- the Graduate School of
20 Oceanography, but this is through the ocean
21 engineering branch there, is we developed this
22 technology-based assessment.

23 What we wanted to look at was we wanted to
24 look at some way of weighting these systems and

1 looking at them so that we can start to sort
2 areas out to focus on research.

3 This TDI looks at two factors basically, a
4 power production function versus an ease of
5 construction.

6 So it's weighting out both those factors
7 and gives you a nondimensionalized ratio, and
8 you can put it into a GIS format, and that's
9 what it looks like.

10 So the blue areas are a one-to-one ratio,
11 which means that you have very high-power
12 production, very low construction cost. And
13 the blue areas are the ones that you would
14 focus in on.

15 What we started to do, though, is you can
16 modify this system by adding in other factors.

17 So one of the factors we obviously wanted
18 to consider was marine construction. And the
19 map completely transformed on us when we put
20 the geology in.

21 So the blue areas are still the areas we
22 want to look for, but now it's starting to
23 focus the areas. Okay?

24 Now, remember also we had those

1 exclusionaries that we didn't want to put wind
2 farms in, so we put those on the maps along
3 with the navigation, the AIS data, and it
4 starts to narrow down the areas even more.

5 And they can do this on a regional scale.
6 This is a TDI showing for the entire region
7 with the AIS and VMS data on there, so you can
8 start to see the areas that might have
9 potential on a regional basis for wind farm
10 development.

11 Now, this is only looking at several
12 factors. There's still a lot of other things
13 that we have to weigh in and throw in on this
14 obviously.

15 So one of the other things we needed to do
16 was look at the marine user. And there is no
17 data, so we had to go out and create it.

18 So we have a very large, robust
19 stakeholder process that we've been working
20 through, and we sat down with a number of
21 groups to actually start to plot out where they
22 used and how they used these areas both on a
23 seasonal basis and also from a usage
24 perspective.

1 And, of course, if you get into actually
2 choosing a site that you think has potential,
3 then you get all the resource data in behind
4 this to weigh out whether that site still holds
5 up because of the NEPA analysis it has to go
6 through.

7 So just to give you an idea, these are
8 some of the maps, and these are fishing vessel
9 tracks that come out of Point Judith,
10 primarily; but these are the courses that
11 they're taking to the various areas. This was
12 worked out with our fisherman groups.

13 This differs somewhat from the VMS data,
14 but it is the tracks that we will typically
15 see.

16 This is the recreational fishing areas.
17 And again, we sat down with the recreational
18 fishing groups over many meetings to plot out
19 the areas that they fish in.

20 This is the mobile gear operations, and
21 you'll see some white lines here, and those
22 white lines are seasonal differences that
23 exist, because what's happened is over the
24 years, the fixed-year and the mobile-year guys

1 that worked out informal arrangements where
2 each sector can go and fish in a particular
3 area during a particular point in time.

4 So this map sort of recognizes those
5 differences in terms of those areas.

6 The interesting thing is that we went and
7 met with the mobile-year guys. They gave us
8 their areas. And then we met with the
9 fixed-area guys, and they give us those areas,
10 and the lines match up beautifully.

11 So there are these arrangements that do
12 exist that both recognized, and this gives us a
13 very good idea of what's going on.

14 Now, these areas may not be fished every
15 year. They may be fished once every five years
16 or whatever, because, as you're well aware,,
17 the species are transitory in how they're using
18 the area. Population dynamics and all the rest
19 of it, responding to climate change, throw it
20 all in there.

21 And so there's a mix that's going on out
22 there that it changes all the time.

23 And when you put it all together, you see
24 very quickly that they use the entire area,

1 which they told us from the start, but the maps
2 sort of depict that now.

3 So we sat down and worked with the
4 fishermen to say, okay, if this is coming,
5 wouldn't you rather have a say in where it's
6 going and work with us in plotting that out,
7 and you guys can work out the compensation
8 issues afterwards and all the rest of it, but
9 let's sit down and try to figure out what's the
10 best place to put this so that it impinges upon
11 your industry the least, which they did work
12 with us on and do that.

13 Another dataset that came out of this is
14 these are VTRs. These are vessel trip reports.
15 Not necessarily a good source of data, because
16 the limitations in the dataset. For instance,
17 it's only for federal fishery licenses that
18 you're going to get this, so the lobster data,
19 for instance, doesn't appear on here.

20 But it does give you a sense of where the
21 fishing activity is in another dimension other
22 than what the fishermen were telling us.

23 So it helps verify some of the more if you
24 want to call it reliable fashion in terms of

1 when they're fishing, it gives you a better
2 sense.

3 The other thing that we had to look at is
4 there are a series of marine mammals and
5 turtles that are protected, either endangered
6 or threatened.

7 Plus, we looked at other marine mammals
8 that tend to inhabit this area because they're,
9 as they call them, the charismatic megafauna.
10 The last thing you want to do is interfere with
11 whales or other marine mammals

12 So we got the data. We got it from the --
13 a consortium that maintains a private database.
14 And when you start to look at these data
15 points, they start to show up as aggregates.
16 And one of the things that you first have to do
17 is correct it for effort.

18 Because, for instance, some of these dots
19 are whale-watching tours. So they have a lot
20 of sightings of whales, but that's because
21 they're going out looking for whales.

22 So you have to correct for that effort in
23 order to make sure you've got an accurate
24 picture of what's going on.

1 So what we did was we actually used the
2 models that were developed for this, and you
3 come up with I call them occurrence blobs, but
4 they're done by season.

5 And for the North Atlantic right whale,
6 which is what this is, Rhode Island doesn't
7 show up as a very big spot in terms of usage
8 area.

9 Stellwagen Bank obviously does, but Rhode
10 Island doesn't. They are transitory through
11 the area but do not usually hang there to feed
12 for any length of time.

13 The other thing that we needed to be aware
14 of was marine birds. There's virtually no
15 datasets on marine birds except for some of the
16 NOAA datasets which exists for vessels.

17 There were some bird observers on vessels;
18 but again, you're very limited as to where that
19 vessel is going and what the picture is. So we
20 did bring that database in and correct it for
21 effort.

22 But we also had to start collecting our
23 own datasets that we would get representative
24 samples.

1 Some very interesting things that came out
2 of this, and that is that the bird numbers in
3 our offshore waters are two to three orders of
4 magnitude lower than the Nantucket Sound site
5 that you were seeing there in terms of the Cape
6 Wind project.

7 That, because the shallow depth and
8 habitat, is a site that is occupied by a lot of
9 marine birds, particularly diving ducks.

10 The other thing that came out of our study
11 is that our -- we also worked with a number of
12 European countries on this. They have over 20
13 years' experience.

14 Diving ducks are limited in terms of the
15 depth that they can go. And typically what
16 we're seeing through our datasets is that they
17 stick within 20 meters or less of waters.

18 So our marine bird people, based on the
19 data that we have where these farms have
20 located -- because what seems to have happened
21 in Europe is if you put it in diving duck
22 habitat, it displace them for that foraging
23 area.

24 So one of things they asked us to do is

1 where there were concentrations of these
2 species in 20 meters or less, to take these off
3 the charts from -- for any consideration of at
4 least a larger-scale energy project, because
5 there will be a loss of that foraging habitat.

6 The other things that we started to gather
7 is subbottom profile data, and this is one of
8 the areas that I was potentially suggesting.

9 We collected side scan and multibeam, but
10 we needed to know the depth of the sediment for
11 marine construction, and subbottom profiling
12 gives us that depth picture.

13 It's also very useful for the academics,
14 and I'll show you here in a bit some the
15 products that we're starting to generate out of
16 this, because it starts to give us a sense of
17 looking at the area and has completely
18 transformed our understanding, subbottom data
19 has, of what happened during the last
20 glaciation and our understanding of the
21 offshore requirement.

22 We also have put out several buoys that
23 are fully instrumented, so they're collecting
24 everything from wind to chlorophyll to oxygen

1 temperature.

2 We've got one in an offshore site and one
3 in a near-shore site so that we can start to
4 get some data at least in the terms of
5 differences between those two areas, and we're
6 starting to run high-resolution net models off
7 those.

8 Again, some of the usage maps that we
9 started to generate, this is for sailboat
10 races. There's some areas that are very
11 important outside the mouth of Narragansett Bay
12 and Block Island. There are multiple race
13 events that are held in these areas.

14 These are areas probably, again, that you
15 don't want to put a lot of structures in, which
16 would seal them off from these races.

17 Speaking of races, these are distance
18 racing courses, and each of the races are
19 labeled there. But as you can see again, there
20 are a lot of commercial racing activity that
21 goes on in this offshore environment.

22 This is recreational boating cruising
23 routes. Now, obviously the recreational boats
24 are all over the place out there, but when

1 they're cruising to various places, these are
2 the typical routes they will use, so we wanted
3 to understand that picture.

4 ED WELCH: Dr. Fugate, we've got about ten
5 minutes or so. We probably will want to ask
6 you some questions, so I don't know how much
7 more you've got on --

8 GROVER FUGATE: Not a lot more.

9 ED WELCH: Okay.

10 GROVER FUGATE: These are diving sites,
11 also historic wrecks which we wanted to know
12 about, and we ran our own marine ecological
13 program with some of the other data.

14 These are some of the recreational uses,
15 which also includes shark cage diving for some
16 of these areas, but we needed to understand
17 that.

18 And in addition, there has been a
19 development that's been chosen by the state
20 that's actually started to do some of their own
21 geological work. This was a rig that they were
22 using off of there doing some cores.

23 This is the south end of Block Island, and
24 this is some high-resolution side-scan sonar

1 that we ran to start to get a better picture of
2 this, because one of the things the state
3 wanted to do was put these small-scale wind
4 farm project off the south end of Block Island.

5 This is the side-scan sonar, so it gives,
6 again, a very high-resolution picture. We've
7 supplemented this with additional datasets
8 going beyond these areas.

9 We've filled in the gap. We were using
10 the ENDEAVOR. That's why that gap exists,
11 because that wasn't a safe place to go given
12 the depths.

13 We also do ground truthing, so these are
14 ground truth sites. And you'll see some of the
15 data starting to come out of this. This is
16 grain size.

17 We run an interdisciplinary team that
18 includes not only geologists by benthic
19 biologists and archaeologists that utilize all
20 these datasets to then go back and map for
21 various purposes.

22 This is one of the benthic geology habitat
23 maps. It's also a surficial depiction, and the
24 red lines represent what the glacial expression

1 is underneath.

2 So it gives us a much better picture of
3 what's going on and becomes the basis of
4 benthic habitat maps.

5 As I was saying, this is some of the data
6 that we're starting to get, collecting our
7 understanding. This stuff gives us a better
8 idea, because one of the major issues for
9 Section 106, the National Resort and
10 Antiquities Act, is these paleoarcheological
11 sites that may exist offshore.

12 So we had to understand the environment
13 out there and do paleal landscape
14 reconstruction to depict the sites that had the
15 highest probability for this.

16 And one of this is now these new
17 derivative maps based off that that is giving
18 us a better understanding of what the last
19 glaciation looked like, where these glacial
20 lakes were, what the surficial expression was
21 out there.

22 And it's changing, as I said, our complete
23 understanding of this area.

24 And we're coupling that with the data

1 that -- this is developer-generated data that
2 we're looking at, cable routes and whatnot. So
3 it's adding in to all our databases and our
4 understanding out there.

5 One of the things I just wanted to end off
6 with was a case for marine spatial planning.

7 This block here represents a wave
8 generation proposal that was put into ferret
9 called Grays Harbor. It's in a major fishing
10 area, and because of that it started to
11 generate a lot of interest.

12 And under the ferret process, they can go
13 out and lay claim on these areas for three
14 years while they gather data. As soon as he
15 put this out as -- and went through the ferret
16 process to lay claim on it, he also then said,
17 well, maybe I also want to do wind in it and
18 maybe LNG, so it started to morph.

19 People got excited. Congressional offices
20 started to get involved. A lot of time went in
21 on this.

22 That's the subroutes in and out of Groton.
23 If they had just had that map from the start,
24 it would have saved everybody a lot of time and

1 a lot of effort. This project didn't stand a
2 chance getting out of the gate given that.

3 So that's my case for marine spatial
4 planning. Thank you.

5 ED WELCH: Thank you.

6 Questions, comments by the panel?

7 Jon, Jon Dasler.

8 JONATHAN DASLER: Yes.

9 I don't know if you can back up the slide.
10 There was a slide right before the side scan,
11 actually. It was like a colored --
12 depth-colored multibeam image. I was just
13 curious what you were using for tides.

14 But I think it kind of states the case for
15 the integrated ocean and coastal mapping
16 efforts.

17 We're seeing a lot of states moving ahead
18 with mapping efforts for coastal and marine
19 spatial planning, but all the striations that
20 you see in there are results of tidal
21 artifacts.

22 Up in the upper left where there's red and
23 green strikes, the stripe lines on the left
24 side up there, that's probably all most likely

1 because of poor tidal monitoring and tidal
2 artifacts.

3 So there's a lot of money being spent to
4 collect this data, but it's not being collected
5 to standards that can be used for charting, and
6 that's something we really need to address.

7 And I guess I just had another question.
8 When they're doing siting for the energy parks
9 or energy sites, are they also looking at the
10 connections that interties to the cable routes
11 that would connect to the grid?

12 GROVER FUGATE: Yes, yes.

13 ED WELCH: Other comments?

14 CAPTAIN GREGORY GIFFORD: Just one
15 comment.

16 ED WELCH: Yes, go ahead, Captain.

17 CAPTAIN GREGORY GIFFORD: Do you want to
18 move to Massachusetts?

19 ED WELCH: Well, along those lines, I
20 found it -- obviously you made a fairly early
21 policy decision, the state, to exclude areas
22 from development or consideration based on a
23 variety of different factors, and traditional
24 navigation routes being one.

1 Do you know -- are you familiar with other
2 states' efforts or are you -- or even the
3 federal efforts, other people?

4 Have other people gotten to that point
5 or -- that seems kind of unique to me.

6 GROVER FUGATE: Well, I don't know how
7 many states are excluding them. There are
8 other states that are certainly mapping them
9 and trying to understand them.

10 And MMS has got this multipurpose marine
11 cadaster that they're putting out which is
12 supposed to house a lot of that data.

13 My understanding is they're essentially
14 data-mining NOAA's database and bringing that
15 into the marine cadaster.

16 So that people are aware of that, to --
17 whether to make it a policy decision to exclude
18 it, I can -- I couldn't tell you.

19 ED WELCH: I haven't seen any indication
20 that the federal government as a whole has
21 expressed too much concern about it one way or
22 the other.

23 Other comments or thoughts?

24 Okay. Well, thank you.

1 GROVER FUGATE: Thank you.

2 ED WELCH: We appreciate it. We
3 appreciate all the panels this morning.

4 We're a little bit behind, but that's
5 okay. We can -- we can have lunch now. We're
6 scheduled to resume at 1:15. That gives us
7 half an hour. We can eat in a hurry. So let's
8 plan to resume at 1:15.

9 (Luncheon recess.)

10 ED WELCH: Okay.

11 Folks, we're going to get started again.

12 Those of you who still have a little bit
13 of lunch, just continue, if you would, please.

14 And we're going to recognize Gary Magnuson
15 to give us an update on the Federal Committee
16 on Marine Transportation System

17 GARY MAGNUSON: Thank you, Ed.

18 When I arrived yesterday morning, I looked
19 around the panel and noticed a number of
20 persons who I worked with in the past, and it
21 brought back many good memories of -- that
22 includes you, Andrew -- and it brought back
23 many good memories of the work that we had done
24 together, but I want to just take -- before I

1 start take a second to say thank you on behalf
2 of NOAA's Hydrographic Services and your active
3 support through the years.

4 We're a better agency because of your
5 interest and support. So once again, thank
6 you.

7 The Committee on Marine Transportation
8 System, I know Ed and our director, Helen
9 Brohl, and I believe Dave MacFarland in the
10 past, have given you updates.

11 So the first few slides, excuse me if it's
12 material you've seen before. I wasn't -- Ed
13 and I discussed a little bit on a phone
14 conversation before I came up here about what
15 the extent of your knowledge of the CMTS.

16 So some of the first few slides are basic
17 information that I will go through quickly. So
18 stop me unless you have a question, because
19 what is really the takeaway from my
20 presentation is that where the CMTS is now, the
21 work that it's taken on and hopes to complete
22 and maybe some thoughts as to its future.

23 Okay?

24 What is the CMTS? It started five years

1 ago. It's a presidentially-directed
2 cabinet-level interagency partnership.

3 It was in President Bush's Ocean Action
4 Plan. It's a chartered organization. And
5 right now, it has roughly 27 member agencies.
6 At the time of the Ocean Action Plan, it was
7 around 18, so the membership was grown.

8 And the Secretary of Transportation,
9 Secretary LaHood in this current
10 administration, is chair.

11 This is quick list of the members.

12 Being a former association director,
13 usually the first sign as to the health of your
14 organization is whether the members show up for
15 the meetings or not, because first thing, if
16 the members do not see by coming together not
17 to be a value, why should they waste their
18 time?

19 The good news is that CTMS members
20 continue to meet, even though the current
21 administration has not affirmed in a positive
22 way the existence of CMTS.

23 Now, I'll be talking more about that later
24 in my -- later on in my presentation.

1 This is a little bit more of a description
2 as to what President Bush charged us to do, to
3 improve the Federal Marine Transportation
4 System coordination and policy, including
5 possibly charting. Admiral West.

6 Develop outcome-based goals for the MTS,
7 integration of existing services and recommend
8 strategies and plans to maintain and improve
9 the MTS.

10 There is also a fairly clear, although it
11 wasn't in writing, that we should do all this
12 with existing resources. That should probably
13 sound familiar to you.

14 Why the CMTS? Well, for the air
15 transportation system, you have the Federal
16 Aviation Administration.

17 For the highway system, you have the
18 Federal Highway Administration. And for
19 railroads, you have the Federal Railroad
20 Administration.

21 But when you come to Marine
22 Transportation, as you all well know, it's
23 spread across many different agencies.

24 So until it day comes, if there's a

1 centralized agency for Marine Transportation
2 within the federal government, the argument is
3 that we need this interagency partnership to
4 try to make sense of all the programs, laws and
5 authorities that the federal government has for
6 Marine Transportation.

7 Back in I believe 2005, Secretary Mineta,
8 who was the Secretary of Transportation at the
9 time, did talk about this super agency for
10 Marine Transportation; but to my knowledge,
11 nothing has been really focused on since that
12 time.

13 This is the organization. You have the
14 cabinet level body on top. Next level down is
15 the sub-cabinet body. Then we have a working
16 group that is -- senior staff level that meets
17 monthly.

18 We have integrated action teams. That's a
19 fancy word for subcommittees. And then we have
20 task teams. The difference between an
21 integrated action team and a task team is the
22 duration of the work.

23 The task teamwork is more focused, shorter
24 team frame. Integrated action team is a little

1 longer, longer period of time, a more
2 challenging task.

3 And the executive secretariate is the
4 staff support for the organization. And I'm --
5 that's where I am.

6 Some of you may remember the ICMTS back in
7 the early part of this decade. That's kind of
8 equivalent to our coordinating board now, the
9 old ICMTS, the Interagency Committee on Marine
10 Transportation System, which, because of the
11 directive in the Ocean Action Plan, was ramped
12 up to cabinet-level staffs.

13 These are our integrated action teams. We
14 use -- the reason we try to use this name is
15 kind of -- it's a sense of the organization.
16 We want to be actionable. We want to be
17 accountable and be results-driven.

18 These are the IATs that we have now for
19 MTS assessment. I think you heard from Dave
20 MacFarland on our efforts for NAVTEQ
21 research/development and the recently formed
22 IAT on Arctic Marine Transportation.

23 Oh, the agencies in parentheses next to
24 the IAT name, that's important as well. Those

1 are the champions for the IAT, gets into this
2 whole bit of accountability, that the member of
3 that agency on the coordinating board is
4 responsible for the success or failure of that
5 particular IAT.

6 And that champion for that agency
7 representative reports on the status of that
8 IAT at every one of the coordinating board
9 quarterly meetings.

10 That is far different than what the ICMTS
11 used to do.

12 Also, another quick comparison between
13 ICMTS and the CMTS is that the White House and
14 OMB were never at the table for the IMCT. They
15 were at the table with the CMTS.

16 These are our task teams. Again, shorter
17 duration. I'll be getting into a little bit
18 more about what this all means and what they're
19 doing.

20 This is what we've accomplished to date.
21 I'm going to -- I'm not going to spend too much
22 time on this, because I think past
23 presentations may have covered some of these
24 accomplishments.

1 Maybe I should take a question, Ed, in
2 case someone has any questions about any of
3 these accomplishments rather than spend time on
4 it?

5 ED WELCH: If anybody has a question of
6 Gary, why don't we ask it as he goes along.

7 GARY MAGNUSON: Yes.

8 This is the national strategy that was
9 adopted by the cabinet body a couple of years
10 ago. I think you probably all have received
11 copies of it.

12 We did this to kind of decide what best to
13 do first to improve the Marine Transportation
14 System.

15 I'm pleased to report that NOAA is viewed
16 as a leader within the CMTS. It was a charter
17 member of the CMTS when the charter was formed
18 for the organization.

19 NOAA was -- the chair of a coordinating
20 board rotates on a calendar basis. NOAA last
21 chaired a coordinating board in 2007,
22 someone -- chaired every one of the single
23 meetings that year. NOAA will be chair of the
24 coordinating board next year.

1 NOAA and the International Trade
2 Administration represent the Department of
3 Commerce, Margaret Spring, chief of staff for
4 NOAA, is at this time the coordinating board
5 representative for NOAA.

6 NOAA leads the and is champion for the IAT
7 for NAVTEQ. Reports, task team -- should be a
8 task team there. NOAA coleads the US Arctic
9 Marine Transportation IAT and has told me my
10 job is to support the CMTS.

11 National strategy, what I was alluding to
12 before, national strategy was adopted, and
13 there's 30 -- there are five challenged areas,
14 five priority areas. Within those five
15 priorities areas there are 34 recommended
16 actions.

17 We went through a priority setting process
18 and came up with six top-priority actions. And
19 from those six, we drilled into them to
20 identify specific activities to improve the
21 Marine Transportation System, activities that
22 are measurable as to what they want to achieve
23 to improve the Marine Transportation System.

24 Coordinating board approved all eight of

1 these activities which essentially makes up the
2 work plan for the CMTS.

3 These are the activities I just mentioned.
4 These specific activities. I think it was
5 mentioned by Captain Hickman yesterday and
6 Captain Lowell about the integration of PORTS
7 information with the Coast Guard's AIS. We are
8 working on that.

9 And in fact, I might add, all these eight
10 activities -- and soon to be nine activities --
11 that constitute the work plan for the CMTS,
12 many of these activities will be achieved by
13 the end of this calendar year.

14 So by the time this panel meets again,
15 Mr. Chair, I think we'd probably have a very
16 robust report to share with you.

17 Research and development priorities. If
18 some of you remember, the research and
19 development -- MTS research and development
20 conference, I think the last one was held in
21 2005 in Washington, DC.

22 The purpose was to share information about
23 research on the Marine Transportation System.
24 There's going to be a conference in Irvine,

1 California, end of June, first part of July, to
2 bring that conference back.

3 But this time, the big difference is that
4 we're going to focus on having a clear takeaway
5 as to how we apply research, develop sort of a
6 plan for that research to address operational
7 needs of the Marine Transportation System.

8 In other words what comes out of that
9 conference will be applied to the needs of the
10 MTS.

11 Another activity that's led by the Saint
12 Lawrence Seaway Development Corporation was to
13 address the need to kind of reduce the 24-hour
14 notice requirement for imports across the Great
15 Lakes.

16 A task team to look at making the PORTS
17 program a more sustainable program. Rather
18 than funding uncertainty of that program over
19 years, the Coast Guard and the Corps of
20 Engineers has joined NOAA to look at a new
21 business model for improving PORTS, an activity
22 that's led jointly by the Coast Guard and Corps
23 of Engineers to look at how can we better plan
24 for tieing up and safeguarding where vessels

1 are kept so they don't become vessel -- turn
2 vessels into missiles during a disruption like
3 a hurricane and disrupt -- further disrupt the
4 Marine Transportation System.

5 And if you note, what is required in an
6 activity or any work that the CMTS does, it
7 requires at least three agencies willing to
8 dedicate staff time to that particular effort.

9 There are -- because agencies have gotten
10 to know each other through the CMTS, there have
11 been bilateral arrangements; but oftentimes, it
12 requires three agencies to have that -- to
13 start that initial snowball that creates an
14 added value to create -- to improve the Marine
15 Transportation System.

16 Next item is -- is this updated assessment
17 of the Marine Transportation System. The
18 most -- we hope this will be the most
19 comprehensive update or assessment of the
20 Marine Transportation System since the 1999
21 report to Congress.

22 Last item is an outgrowth of the
23 conference held last May. It was a conference
24 put on by the Secretary of Transportation,

1 Secretary of Commerce on supply chains
2 efficiencies and to identify bottlenecks to
3 improve US supply chain.

4 What's ahead for the CMTS?

5 The Obama administration, as I mentioned
6 before, is not affirmed the existence of the
7 CMTS.

8 However, as it was pointed out by a
9 question of the Admiral yesterday, based on
10 Jennifer Lukens' presentation, that in the
11 Ocean Policy Task Force recommendations, that
12 hopefully will be soon submitted to the
13 President, that a CMTS is noted.

14 We are in an organization framework, and I
15 think Jennifer noted that you have National
16 Security Policy, the Ocean Policy Body --
17 Council here, or Committee, I guess it is, and
18 off to this side is National Economic Policy.

19 CMTS is over with National Economic
20 Council. We are really nothing more than a
21 footnote in the whole document. However, the
22 good news is at least we are that.

23 I worked with the working group who
24 developed the recommendations for the Ocean

1 Policy Task Force and gave them a presentation
2 on the CMTS, and they very much had the
3 opportunity not to include the CMTS at all in
4 the report.

5 So whether -- even though we're just a
6 footnote, essentially, at least we're in the
7 report.

8 As I mentioned before, we're getting on
9 with the execution of specific activities to
10 improve the Marine Transportation System based
11 on the national strategy.

12 We are in the midst of developing the
13 first, to my knowledge, first ever compendium
14 of federal marine transportation laws, programs
15 and authorities by agency.

16 We hope to have that be kind of a living
17 document or tool that one can use as a
18 reference document.

19 Again, the response to the Ocean Policy
20 Task Force recommendations, we're not sure what
21 the President is going to decide.

22 By the way, discussions have started
23 between the National Economic Council and the
24 CMTS staff on this.

1 CMTS authorization came up a couple of
2 years ago and was set aside once the policy
3 task force got under way.

4 The reason for the authorization is two
5 things. When you have a chartered organization
6 that is not authorized in law, when you're not
7 authorized in law, you're prohibited from
8 pooling funds, so member agencies can't come
9 together and pool monies to achieve a
10 particular project.

11 In other words, the Coast Guard, who is
12 the champion for the national strategy,
13 essentially had to foot the entire bill for
14 this document.

15 The Corps of Engineers, which has the lead
16 for the CMTS assessment, essentially had to put
17 up a couple hundred thousand dollars by itself
18 to do that assessment.

19 Authorization in law would enable us to
20 pool funds. Second thing, it gives us a little
21 bit more certainty to take on long-term issues
22 for the Marine Transportation System.

23 So that's been tabled pending the outcome
24 of the Ocean Policy Task Force

1 report/recommendations. And I mentioned the --
2 mentioned the conference already.

3 That's it. Questions?

4 ED WELCH: Thanks, Gary.

5 Adam?

6 ADAM McBRIDE: Thanks, Ed.

7 Regarding the presidential affirmation,
8 Gary, that you mentioned or that doesn't exist
9 under the Obama administration, what about
10 specific funding for staff, for functions, for
11 travel that goes on by CMTS employees?

12 Or are they housed or do they live with
13 another department?

14 How is that structured? Isn't that
15 affirmation?

16 GARY MAGNUSON: Yes, it is.

17 In fact, as I said before, the members
18 continue to meet and do good work until they're
19 told otherwise, Adam. That's the good news.

20 As far as staff and our -- our office
21 space and the like, we're housed through the
22 courtesy of the Maritime Administration. We're
23 on the second floor of the new Department of
24 Transportation Building over on New Jersey and

1 M near the Washington National Stadium, if you
2 have an idea where that is in Washington.

3 My positions paper by NOAA, the other two
4 staff persons that join me in providing staff
5 support to the CMTS, one is put up by the Army
6 Corps of Engineers, and the other is put up by
7 the Maritime Administration.

8 So between those three agencies putting up
9 a staff position and an office space, providing
10 pens, paper, and those things, and computers,
11 by the Maritime Administration, that's about
12 it.

13 Although we did get some money from MIRAD
14 [phonetic] in I think FY10 that we're able to
15 do the compendium with and a couple of small
16 projects. But we don't foresee that happening
17 again.

18 ED WELCH: Matt.

19 MATT WELLSLAGER: Matt Wellslager.

20 Gary, could you build a little bit more on
21 the national strategic activities and implement
22 a sustainable national PORTS?

23 What's actually taking place there?

24 GARY MAGNUSON: If you want me to take a

1 shot -- Rich is the lead for this activity, so
2 Rich, why don't you go.

3 RICHARD EDWING: Yes.

4 So I am the lead on that, and I've got
5 representatives from the Corps and the Coast
6 Guard working with me, and this is actually
7 about with trying to address Recommendation No.
8 3 in the HSRP report, is how are we going to
9 get PORTS to sustainable place.

10 What I'm trying to do through this --
11 through the MTS is highlight the -- well,
12 identify and highlight the growing federal
13 reliance on the PORTS system.

14 When we establish a PORTS nowadays,
15 it's -- you know, different sensors are
16 identified to address local user navigation
17 safety issues.

18 But the data that's being put out can also
19 help the Corps with dredging, it can also help
20 the Coast Guard with oil spills. And there's,
21 you know, many other mission outcomes it's
22 helping with.

23 And so I'm trying to educate and highlight
24 this federal reliance not just on the existing

1 PORTS system but to expand how it would help
2 better meet the federal mission requirements,
3 so tell the bigger story of the benefits of
4 PORTS, okay?

5 And then -- and that's kind of where we're
6 at now, kind of gathering all these information
7 requirements from different agencies. And not
8 just those, they're going to DoD as well, to
9 get some of the national security requirements.

10 So we're going to pull in all that
11 information, do an analysis of that, and we're
12 going to look at that and see what I'll say the
13 true national requirement is or national
14 requirement based upon both the local user
15 needs as well as the federal needs.

16 And with that information we'll look at
17 what are some alternatives to the existing
18 business model, if you will, you know, the
19 business model recommended by HSRP reports,
20 federal funding. The existing business model
21 is, you know, the PORTS paying.

22 Another potential path is tapping the
23 HMTF, although I know all issues with that.

24 There's also different sorts of cost

1 sharing -- we have to kind of put forward all
2 these different cases, and what I'm hoping to
3 end up with at the end of the day is kind of an
4 endorsement of one of these alternatives from
5 the CMTS.

6 And again, it's -- it's highlighting the
7 importance of this program and trying to get,
8 you know, get it funded in a sustainable manner

9 MATT WELLSLAGER: Good, thank you.

10 ED WELCH: Other observations?

11 Larry.

12 LARRY WHITING: I got a question.

13 Do I ask you the question or should I ask
14 it of Ed?

15 ED WELCH: Both.

16 RICHARD EDWING: Well, if it's that one,
17 it's me.

18 LARRY WHITING: It is that one. It's a
19 budgeting question, though.

20 The President's budget had no money in it
21 that I could see for the implementation of
22 PORTS; that is correct?

23 RICHARD EDWING: The President's budget
24 has \$5 million in it to support the federal

1 infrastructure that's required to support the
2 existing partnership, cost-shared partnership,
3 okay?

4 And there is additional money in this
5 year's budget that was provided by Congress
6 over and above the President's request to pay
7 for the O&M on the existing ports, but that's
8 not -- that got dropped, as add-ons always are,
9 for the FY11.

10 Is that -- does that answer your question?

11 LARRY WHITING: That's what I was --

12 RICHARD EDWING: Okay.

13 GARY MAGNUSON: While you're thinking, I'd
14 like to add a couple of more points that have
15 come to mind, Mr. Chairman.

16 The last time the cabinet body met was
17 over two years ago, close to two years ago.
18 And in that meeting, they adopted a national
19 strategy.

20 Some people say, well, why hasn't the
21 cabinet body met since then?

22 We don't want to have a meeting just to
23 have a meeting for the cabinet body. In other
24 words, we have to have a very robust and

1 meaningful agenda to take to them.

2 Since that time, the coordinating board
3 has really stepped up to be the leading body
4 for the CMTS, the sub-cabinet body. And our
5 focus is really to improve operations of the
6 Marine Transportation assessment, not such
7 policy at this time.

8 We did -- we did make an attempt a couple
9 of years ago to take on the Harbor Maintenance
10 Trust Fund and seek \$110 million increase
11 through the Corps of Engineers for maintaining
12 of key federal waterways.

13 I see us come back to that eventually when
14 the Obama administration embraces the CMTS more
15 heartily. And I say that because the Secretary
16 of Transportation, who is the chair of the
17 organization, hasn't taken a lot of interest in
18 the CMTS as of late.

19 He has met with the coordinating board,
20 but as far as being the driver for policy, it
21 hasn't happened yet, I'm hopeful that it will
22 happen.

23 So in the meantime, our focus is to
24 improve the operations of the MTS, the nine

1 activities -- and I have eight listed, and the
2 ninth one was the one that the coordinating
3 board just approved a few weeks ago, is does it
4 stand up a -- an e-navigation integrated action
5 team.

6 The reason I don't have it listed as an
7 activity is because we're not sure what they're
8 going to do yet except for a national
9 e-navigation plan. They're going to be meeting
10 shortly. There's a number of agencies that are
11 interested in it.

12 And to answer your question of me, which,
13 I'm sorry, I wasn't necessarily paying full
14 attention, Admiral West, is that how
15 initiatives get started with the CMTS.

16 I think the members are starting to really
17 get it, that when they meet or they have
18 obtained a relationship by me, they get an idea
19 that maybe my program could be enhanced through
20 interagency support. The PORTS task team is a
21 good example.

22 Another good example of improving the
23 integration of information provided by the
24 Coast Guard through AIS and NOAA through PORTS,

1 about integrating those to make it more
2 user-friendly for the mariner.

3 The idea that NOAA had just I think about
4 six months ago, everyone knows that there's
5 shipping going on in the Arctic, and probably
6 that's likely to increase.

7 And NOAA raised the question, saying,
8 well, what are we going to do about that? How
9 are we going to prepare for that?

10 So NOAA hosted a meeting of interested
11 CMTS member agency on the topic. I think we
12 had close to 10 or 11 agencies represented at
13 that meeting, including the State Department,
14 Coast Guard, Corps of Engineers and the like.

15 And it was decided at that meeting that we
16 needed to come together, utilizing the CMTS to
17 see what is the best coordinated federal
18 response to marine shipping in the Arctic.

19 So that's why the IAT was established, and
20 the IAT right now is developing an inventory of
21 federal marine transportation activities in the
22 Arctic, and from there we're going to be doing
23 a gap analysis as to what best to do.

24 So that gives you an idea of how we

1 operate. As far as your idea, Admiral West,
2 about coordinating federal charting, if there
3 is a federal agency that's willing to champion
4 that, we would certainly bring it to the forum.

5 Any other questions?

6 ED WELCH: Gary, do you anticipate that
7 the CMTS will have any role post incident to
8 the transocean spill and response down in the
9 Gulf?

10 I would think so, Ed. Because after
11 Hurricane Katrina, there was a cabinet-level
12 CMTS meeting. And the cabinet representatives
13 and the cabinet who were in attendance at that
14 meeting, they focused almost the entire meeting
15 as to what was our response, how we will did we
16 do, and where are the areas that we can improve
17 the response.

18 I would think the same thing will happen
19 to -- in response to the oil spill.

20 ED WELCH: Because I don't want to be
21 overly, you know, cynical the way I normally
22 am; but, you know, if you're looking for
23 presidential affirmation, study and advance
24 notice of arrival of cross-lake freight ferries

1 is not the way to get White House affirmation.
2 Being involved in some spill evaluation and
3 anything back on the CMTS might be a little
4 more relevant to their mindset.

5 GARY MAGNUSON: I understand your point.

6 ED WELCH: Sherri.

7 SHERRI HICKMAN: I see that -- let's see,
8 one of your bullets was improve the interagency
9 coordination to increase resumption of waterway
10 use following a disruption.

11 I guess mine is more of a comment on it,
12 but we in Houston have offered ever since
13 actually Rita to have -- and we saw Bob
14 Peacock's presentation yesterday where the guys
15 arrived with the side-scan sonar and the boat
16 and they rigged their open mount for it to be
17 able to use it.

18 And we've offered to -- tell us what size
19 mount you need, post any storm that affected
20 us, we -- you can use our boat, just send the
21 guys and the side-scan sonar, and you've got a
22 boat to try to open the waterway up.

23 Any pilot in the area would probably offer
24 to do that than take the expense of building it

1 on their boat, because it's in our best
2 interest to open that waterway back up as well.

3 And it seems like you got to cattle prod
4 them every so often. And I'll call Alan Bunn
5 and say, hey, you know where this stands? Oh,
6 I'll look into it.

7 But, as I think with any government
8 agency, it kind of takes forever to get
9 something done. But to me, that would be a --
10 for the -- for important waterways, that's the
11 best way to get anything done pretty quickly to
12 open it.

13 GARY MAGNUSON: The focus of that
14 particular activity, Captain, as I mentioned
15 before, it's really to get vessels out of
16 harm's way that would break free and collide or
17 disrupt the existing marine transportation
18 infrastructure. That's the focus of the
19 activity right now.

20 It's a task team that's focusing on just
21 this area, but I -- your point's noted.

22 SHERRI HICKMAN: So basically, if I'm
23 standing right, you're talking about getting
24 the port cleared out prior to a storm.

1 GARY MAGNUSON: Correct.

2 SHERRI HICKMAN: I think every port, if
3 I'm not mistaken -- I know we do, we have
4 requirements of so many hours before landfall,
5 we're talking three days, up to 12 hours, what
6 we will do --

7 GARY MAGNUSON: Some do better. That's
8 the intent of the activity, is to try to
9 improve things.

10 SHERRI HICKMAN: Okay.

11 GARY MAGNUSON: Any other questions?

12 Yes, Gary.

13 GARY JEFFRESS: Gary Jeffress.

14 Just to add to Sherri's comment, I've been
15 told by the Corps of Engineers that the amount
16 of crude that can be stored at Texas City,
17 which is where the major refineries are in
18 Houston, is only 72 hours' worth.

19 So once the port is shut down for more
20 than 72 hours, they have to shut down those
21 refineries, and the price of gasoline will
22 skyrocket.

23 So it's a national concern to have a port
24 like the ship channel in Houston open within 72

1 hours of a storm event or any sort of incident.

2 GARY MAGNUSON: The -- there are
3 reminders -- in just your two comments, it's
4 interesting to watch how members interact more
5 and more by meeting through the CMTS, and we're
6 all kind of limited as to making the most of
7 existing resources.

8 If we had some new money and we could move
9 out in some special issues that would truly get
10 the administration's attention of improving the
11 Marine Transportation System, but -- and
12 members continue to meet, because essentially,
13 the vast majority of them view it as the right
14 thing to do.

15 SHERRI HICKMAN: One other comment.

16 Yes, Gary, you're right. Houston is the
17 same way, Shell, Exxon, 72 hours. We deal with
18 that with fog even, not even a storm, because
19 we'll only move those wide bodies during the
20 day, and sometimes that's not enough of an open
21 window for us to move them in.

22 So they miss their window of opportunity
23 when we have fog. And they start crying if
24 we're looking at 60 hours and they're not sure